CURRICULUM VITAE

Jawad Faiz
Professor of University of Tehran

1. PERSONAL IDENTITIES

Name:	Jawad
Family name:	Faiz
Date and place of birth:	21.03.1952, Ghom, Iran
Nationality:	Iranian
Positions:	Lecturer, University of Tabriz, 1974-1979. Assistant Professor, University of Tabriz, 1979-1985. Associate Professor, University of Tabriz, 1979-1985 Professor, University of Tabriz, 1985-1991. Professor, University of Tehran, 1999-till.

2. EDUCATIONAL BACKGROUND

B.Sc.	Electrical Engineering	Department of Electrical Engineering	University of Tabriz	1969
M.Sc.	Electrical Power Engineering	Department of Electrical Engineering	University of Tabriz	1971
Ph.D.	Electrical Engineering	School of Electrical Engineering	University of Newcastle upon Tyne UK	1974

3. MEMBERSHIPS

3.1 Academies

a) Fellow of the Iranian Academy of Science (IAS) since 1400.
b) Member of Euro-Med Academy of Arts and Sciences since 1385.

3.2 Societies

c) Fellow of the Iranian Association of Electrical and Electronics Engineers .
d) Member of Illumination Engineering Association (….-….).
e) Member of Iranian Association of Electrical Machines and Drive.
f) Senior Member of Institute of Electrical and Electronics Engineering (IEEE, USA).

4. COMMUNICATIONS WITH NATIONAL AND INTERNATIONAL JOURNALS

1. International Journal of Engineering, Iran (Editorial Board Member))
2. Journal of Electrical Engineering, University of Tabriz, Iran (Editorial Board Member))
3. Journal of Electrical Engineering, Amirkabir University of Technology, Iran (Editorial Board Member)
4. Scientia Iranica, Iran (Editorial Board Member))
5. Engineering Education, Iranian Academy of Sciences (Editorial Board Member)
6. Journal of Intelligent Procedures in Electrical Technology (JIPET), Islamic Azad University, Iran.
7. Associate Editors, IET Electronics Letter, UK.
8. Journal of Iranian Association of Electrical and Electronics Engineers.
9. Journal of Renewable Energy and Sustainable Development, Egypt, Academ Publishing Center (Editorial Board Member).
10. International Advisory Board of Jordan Journal of Electrical Engineering

5. MEMBER OF SCIENTIFIC COMMETTEES

1. Iranian Conference on Electrical Engineering, Iran.
2. International Power Systems Conference, Iran.
3. International Conference of Power Electronics and Drives Systems (PEDSDC), Iran.
4. International Conference on Applied Electromagnetics (PES), Nis, Serbia.
5. International Conference on Electrical Drives and Power Electronics (EDPE), 2021.
6. IEEE International Electric Machines & Drives (IEMDC), USA.

6. AWARDS

1. The 3rd outstanding researcher in whole Universities in Iran, Iran Minidtry of Higher education, 2002.
2. Advisory board of American Society of Biography, since 1993.
3. Member of Illumination Engineering Society, USA, 1977-1984.
4. Member of Board of Iranian Association of Electrical and Electronics Engineers, 2002.
5. Outstanding Researcher of University of Tehran, 1999.
6. Elite Professor of University of Tehran, 2003.
7. University of Tehran Award for International position achievement, 2012.
8. Book Prize awarded by the University of Tehran for writing the best book in the field of Fault Diagnosis of induction motors, published by International Publisher (IET), 2018.
9. Book Prize awarded by the University of Tehran for writing the best book in the field of Transformer tap-changer published by International Publisher (Springer), 2012.
10. Einstein Silver Model awarded by United Nations Educational, Scientific and Cultural Organization (UNESCO) for the excellent research in 2007.
11. Kharazmi International Festival 1st prize for Basic Research, 2007.
12. First-class Medal for Lifetime Research from University of Tehran, 2007.
13. Elite Professor of whole Universities in Iran, Minidtry of Higher Education, 2004.
14. Outstanding Professor of Iran National Elites Foundation (Allameh Tabatabaei), 2012. (INSF).
15. Listed as a Famous People of University of Tehran.
16. Gold Plate for Brilliant Face of Researchers in Electrical Engineering Industry from Iranian Association of Electrical and Electronics Engineers.
17. Distiguished Iranian Researcher among World Scientics in Electrical Engineering, Recognisation by Iran Monistry of Power.
18. IEEE Iran Section Lifetime Research Award, 2015.
19. Author of the top 1% most highly cited papers worldwide 1% Top Scientists in the World repoted by ISI/ESI, Thomson Ruters.
20. Google scholar h index 53.
21. Award for Distingushed Vice-Dean of Education and Graduate Studies of College of

Engineering from Education Festival of University of Tehran.

22. Listed in Marquis Who's Who in Science and Engineering, 2000.
23. Distinguished researcher of University of Tabriz Award, 8 times, 1989-1996.
24. Member of Board of Iranian Association of Electrical & Electronics Engineers, 2002.
25. Best paper prize awarded by {pwer Electronics and Motion Conference (PEMC2018), Hungray Budapest, Hungry, 2018.

7. EXPERIENCES

a) Lecturing the following courses for the last 46 years in different Universities in undergraduate and postgraduate levels:

1. Fundamentals of Electrical Engineering
2. Electrical Insulations
3. Technology of Electrical Engineering Materials.
4. Illumination Engineering
5. Electrical Installations
6. Industrial Electricity
7. Electrical Machines I: Electrical Energy Conversion and DC Machines.
8. Electrical Machines II: Transformers and Induction Machines.
9. Special Electrical Machines.
10. Generalized Theory and Analysis of Electrical Machines.
11. Design of Electrical Machines.
12. Design of Small Electrical Machines.
13. Advanced Special Electrical Machines: Step Motors and Switched Reluctance Motors.
14. Numerical Methods in Electromagnetics.
15. Electrical Engineering Materials.

b) Supervision of M.Sc. Seminars for Graduate Students.
c) Supervision of M.Sc and Ph.D. theses.
d) Member of the Board of Trustees of Niroo Institute of Research.
e) Member of the Board of Trustees of Nabeei Akram Higher Education, Tabriz.
f) Consultant of Niroo Institute of Research.

8. INVITED LECTURES AND KEYNOTE SPEAKERS

1. Switched Reluctance Analysis and Design, Ministry of Heavy Industry, Tehran, Iran, Feb. 1992.
2. Optimum Design of Transformers, Department of Electrical Machines and Drives, Varna, Bulgaria, Oct. 1994.
3. Design Optimization of Multiple Teeth Switched Reluctance Motors, Center of Intelligent Systems, Tehran, Iran, August 1997.
4. Electric Vehicle-Present and future, Iran Academy of Sciences, 2000,
5. Electric Vehicle Applications, University of Sistan & Blouchestan, 2001.
6. Performance of Transformers under non-sinusoidal mode, Chinese Academy of Sciences, Nov. 2010.
7. Fault Diagnosis in Permanent Magnet Synchronous Motors, Chinese Academy of Sciences, Nov. 2010.
8. Renewable Energies, Iran Academy of Science, Feb. 2013.
9. Fault Diagnosis in Power Transformers, Keynote Speaker, 11th International Conference on Applied Electromagnetics, PES 2013, 1-4 September 2013, Nis, Serbia. Sep. 2013.
10. Wind Energy Generation, IEEE AEECT 2015, Nov. 3-5 2015, The Dead Sea, Jordan.
11. Different Linear Generators Topologies for Direct-Driven Wave Energy Conversion, International Symposium on Hydrogen Energy, Renewable Energy and Materials, Thailand, 2018.
12. Design of Axial Flux Ferrite Permanent Magnet Synchronous Generator, Keynote Speaker, 14th International Conference on Applied Electromagnetics, PES 2019, Nis, Serbia. Sep. 2019.

13. Fault detection in Electrical Machines, 1st International Conference on Electrical Machines, Sabzevar, 2021.

9. REVIEWER FOR JOURNALS

1. IEEE Transactions on Energy Conversion
2. IEEE Transactions on Power Delivery
3. IEEE Transactions on Industrial Electronics
4. IEEE Transactions on Industry Applications
5. IEEE Transactions on Control Systems
6. IEEE Transactions on Magnetics
7. IET Electric Power Applications
8. IET Generation, Transmission and Distribution
9. IET Renewable Energy
10. IET Power electronics
11. European Transactions on Electrical Power
12. Electric Power Systems Research
13. Electric Power Components and Systems
14. International Journal of Engineering (+Member of Editorial Board, Iran)
15. Iranian Journal of Science and Technology (Iran)
16. International Journal of Science and Technology (Iran)
17. Iranian Journal of Electrical & Electronics Engineering (Iran) (+Member of Editorial Board)

10. PROFESSIONAL INTERESTS

- Design and modeling of electrical machines
- Induction generators design
- Switched reluctance machines design, modeling and losses estimation
- Traction motor design and control for electric and hubrid vehicles
- DTC technique for induction and PM motors
- Condition monitoring of non-conventional electrical machines
- Slip recovery energy in induction motor
- Electric field and thermal computations in power transformer
- Solid-state tap-changer for distribution transformers
- Linear induction motor and generator design and modeling
- Condition monitoring of transformers
- Design of linear PM generator for wave energy conversion
- Design of linear and rotating Vernier machines
- Robust Design of PM motors
- Thermal modeling of power transformers
- Doubly-fed induction generators and its fault diagnosis
- Derating of Transformers
- Renewable energy generation

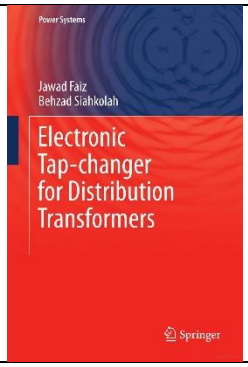
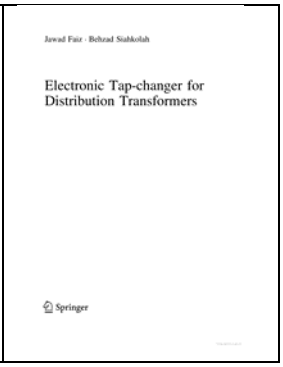
11. PUBLICATIONS

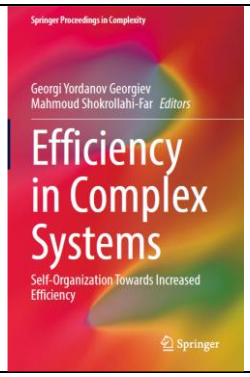
a) Thesis

1. Radio Frequencies Amplifiers, M.Sc. thesis, Faculty of Engineering, University of Tabriz, 1354,
2. Computationa Methods for the Design of Multiple-tooth-per-pole Stator Pole Switched Reluctance Motors, Ph.D. thesis,School of Electrical Engineering, University of Newcastle upon Tyne, UK, 1988.

b) Books (in English)

1	Jawad Faiz, Vahid Ghorbanian, Gojko Joksimovic Fault Diagnosis of Induction Motors, The Institution of Engineering and Technology (*IET) Press, London*, U.K., ISBN 878-1-785610320-9	

2	Jawad Faiz, Behzad Siahkolah Electronic Tap-changer for Distribution Transformers, *Springer Verlag*, GmbH, Wien-New York, 2011 ISBN 978-3-642-19910-3 ISBN 978-3-7091-1565-7 (eBook) DOI 10.1007/978-3-642-199111-0		

3	J. Faiz and Farbod Parvin Chapter 5 of the book Springer Nature Switzerland AG 2022 G. Y. Georgiev, M. Shokrollahi-Far (eds.), doi.org/10.1007/978-3-030-69288-9		Trends and Technical Advancements on High-Efficiency Electric Motors: A Review

c) Book (in Farsi)

1. Jawad Faiz, Arash Servatian, Analysis of Single Phase Induction Motors, Publisher Imam Reza University, 1375

d) Books- Translated into Farsi

1. **Jawad Faiz**, Fundamentals of Electrical machinery, Stephen J. Chapman, University of Tabriz Press, (6th Edition-1384).
2. **Jawad Faiz**, Properties of Materials for Electrical Engineers, Pasco, MarkazNashr Daneshgahi, Tehran, 1985.
3. E. S. Gogani, and **J. Faiz**, Cyril C. Veinot, Fractional and Sub-fractional Horsepower

Electric Motors (1st Volume), Moto-Gen-Co., 1984.

4. E. S. Gogani, and **J. Faiz**, Cyril C. Veinot, Fractional and Sub-fractional Horsepower Electric Motors (2nd Volume), Publisher Nima, Tabriz, 1386.
5. **Jawad Faiz**, Response Analysis of AC Electrical Machines- Computer Models and Simulation, John R. Smith, University of Tabriz Press, 1998.
6. **Jawad Faiz**, AC Motor Design, H. C. J, de Jon, Sahand University of Technologu Press, Tabriz, Iran, 1999.
7. **Jawad Faiz**, AC Synchronous Generators- Design and Application, Robert L. Ames, University of Tabriz Press, 1999.
8. **Jawad Faiz**, Small Electric Motors, H. Maezala et al., University of Tehran Press (2nd Edition), 2008.
9. **Jawad Faiz**, Siroos Hemmati, Analysis of Synchronse Machines, Tomas A. Lipo, University of Tehran Press, 2019.

e) Papers Presented in International Conderences

1987

1. Introduction of CAD of switched reluctance motors*
   Finch, J.W**, Faiz, J.** and Harris, M.R.
   22nd Universities Power Engineering Conference (UPEC-87), April 1987, Sunderland, UK., paper No. 8.01.
2. Permeance calculation for complex pole shapes by assumed flux paths
   Faiz, J., Metwally,H.M.B., Harris, M.R. Finch, J.W,
   22nd Universities Power Engineering Conference (UPEC-87), April 1987, Sunderland, UK., paper No. 9.09.

1988

3. Calculation of a switched reluctance motor performance using finite element method
   Metwally, H.M.B., Finch, J.W and , **Faiz, J**.
   23rd Universities Power Engineering Conference (UPEC-88), Sept 1988, Nottingham, UK.
4. Simplified unaligned permeance evaluation of doubly salient structures and estimation of finite slot depth effect
   Faiz, J., Finch, J.w and Metwally, H.M.B.
   23rd Universities Power Engineering Conference (UPEC-88), Sept 1988, Nottinghm, UK.
5. The multi-tooth per stator pole switched reluctance motor Four teeth per pole
   Faiz, J., Finch, J.W. and Metwally, H.M.B.
   International conference of Electrical Machines (ICEM-88), Sept. 1988, Pisa. Italy. Vol. II, pp 563-568.
6. Core loss in switched reluctance motor structures-Experimental results
   Metwally, H.M.B., **Faiz, J**. and Finch, J.W.
   International conference of Electrical Machines (ICEM-88), Sept. 1988, Pisa. Italy, Vol. II, pp 31-34.

1989

7. Two-dimensional flux leakage estimation in switched reluctance motors
   Faiz, J. and Finch, J.W.
   4th International conference of Electrical Machines and Drives (EMD-89), Sept. 1989, London, UK, pp. 317-321.
8. Estimation of shallow slot on the permeance of doubly salient structure
   Faiz, J.
   IEEE Region 10 International Conference of on Information Technologies for the 90's, TENCON-89, Nov. 1989, Bombay, pp 1071-1075. India.

1990

9. A non-linear modelling of a loaded transformer using design data.

Faiz, J. and N. Mahdavi Tabatabayee
International conference of control and modelling (ICCM'90), July 1990, Tehran, Iran, pp 653-657.

10. CAD of single-phase induction motors based on a new geometrical approach
Faiz, J. and Honarparvar, Sh.
3rd International Sumposium of Modelling and Simulation of Electrical Machines and Converters (IMACS-TC1'90), Sept. 1990, Nancy, France, pp. 129-134.
11. Two-dimensional finite element analysis of multi-tooth per stator switched reluctance motor-four teeth per stator pole
Faiz, J., Harris, M.R. and Finch, J.W.
25th Annual Meeting of IEEE Industry Applications Society (IEEE/IAS), October 1990, Seattle, USA, pp 234-240.

1991

12. Steady-state test for switched reluctance motors",
Faiz, J.
China International Conference on Electrical Machines, Sep. 18-20, 1991, Wuhan, China. pp 454-459.
13. Comparison of switched reluctance motors with conventoinal motors
Faiz, J.
China International Conference on Electrical Machines, Sep. 18-20, 1991, Wuhan, China. pp 498-503.
14. Short circuit in three phase induction motors supplied by balanced and unbalanced voltages
Faiz, J. and Khodadadi M.A.
China International Conference on Electrical Machines, Sep. 18-20, 1991, Wuhan, China. pp 621-626.
15. Heat distribution and thermal calculations for switched reluctance motors
Faiz, J. and Dadgari, A.
5th International Conference on Electrical Machines and Drives, Sep. 1991, London, UK, pp 305-310.
16. Prediction of Static Magnetisation Characteristics of switched reluctance motors for general rotor positions
Faiz, J.
3rd European Conference on Power Electronics, EPE'91, Sep. 1991, Florence, Italy.
17. Brushless drives using multi-tooth per pole switched reluctance motors
Finch, J.W., Metwally, H.M.B and **Faiz, J**.
International Conference on the Evolution and Modern Aspects of Synchronou Machines, Aug. 27-29, 1991, Zurich, Switzerland, pp 469-474.

1992

18. Computer modelling of a three phase induction generator for power system
Jawad Faiz, K. Banan Abbasi and A. Roshan Milani
Second IASTED International Conference on Computer Applications in Industry, May 5-7, 1992, Alexandria, Egypt, pp 370-373.
19. Rewinding of a conventional induction motor as a switched reluctance motor
Jawad Faiz, A.A. Khamenian and S. Ghasemzadeh
International Aegean Conference on Electrical Machines and Power Electronics, May 27-29, 1992, Kusadasi, Turkey, pp 61-66.
20. Electrical Machines Computer Package Based on Generalized Theory of Electrical Machines
Jawad Faiz, M.A. Khadadadi
International Aegean Conference on Electrical Machines and Power Electronics, May 27-29, 1992, Kusadasi, Turkey, pp 618-623.
21. Modeling of a three phase induction generator connected to Electric Power System
Jawad Faiz, K. Banan Abbasi and A. Roshan Milani
International Aegean Conference on Electrical Machines and Power Electronics, May 27-29, 1992, Kusadasi, Turkey, pp 353-359.
22. Engineering Education in Iranian Universities: Past and Present
Jawad Faiz and Sayed Ghasemzadeh
5th World Conference on continuing Engineering Education, June 2-5, 1992, Hellsinki University of Technology, Espoo, Finland, pp 197-204.
23. A design package for single-tooth per stator pole switched reluctance motors*
Faiz, J. and Finch, J.W.

International Conference on Electrical Drives and Power Electronics, September 14-16, 1992, Kosice, Czech and Sloval Federal Republic, pp. 87-92.

24. Software for Electrical machines laboratory
    Faiz, J. and Ghasemzadeh, S.
    International Conference on Electrical Drives and Power Electronics, September 14-16, 1992, Kosice, Czech and Sloval Federal Republic, pp. 102-106.
25. Modification factor for sizing equation of electrical machines - Single and three phase induction motors
    Faiz, J. and Honarparvar, Sh.
    International Conference on Electrical Drives and Power Electronics, September 14-16, 1992, Kosice, Czech and Sloval Federal Republic, pp. 345-347
26. Capacitance requirement for self-excited induction generator including core losses
    Faiz, J. and Khamnian, A.A.
    International Conference on Electrical Drives and Power Electronics, September 14-16, 1992, Kosice, Czech and Sloval Federal Republic, pp. 354-358.
27. Design study of switched reluctance motor performance
    Finch, J.W., **Faiz, J**. and Metwally, H.M.B.
    27th Annual Meeting of IEEE Industry Applications Society (IEEE/IAS), October 1992, Houston, Texas, USA.

1993

28. Design of three phase self-excited induction generator, Part I: Influence of steady-state parameters
    Jawad Faiz, A.A. Dadgari and A.A. Khamenian
    7th International Conference on Electrical Machines and Drives (ELMA'93), October 1993, Varna, Bulgaria, pp. 116-123.
29. Design of three phase self-excited induction generator, Part II: Design procedure
    Jawad Faiz and A.A. Dadgari
    7th International Conference on Electrical Machines and Drives (ELMA'93), October 1993, Varna, Bulgaria, pp. 124-132.
30. Analysis of a self-excited induction generator and experimental verification of the developed model
    Jawad Faiz and A.A. Khamenian
    7th International Conference on Electrical Machines and Drives (ELMA'93), October 1993, Varna, Bulgaria, pp. 133-139.
31. Educational package for the design of a three phase core type distribution transformer
    Jawad Faiz, S. Ghasemzadeh and M. Shahed-behrouz
    7th International Conference on Electrical Machines and Drives (ELMA'93), October 1993, Varna, Bulgaria, pp. 140-146.
32. Minimazation of starting time and improvement of performance of a capacitor-run single-phase induction motor
    Jawad Faiz and M. Tarafdar-Haque
    7th International Conference on Electrical Machines and Drives (ELMA'93), October 1993, Varna, Bulgaria, pp. 147-152.
33. Performance prediction and analysis of shaded pole induction motors considering asymmetrical flux distribution and saturation effects
    Jawad Faiz, M.R. Feyzi and K.B. Ali-Abbasi
    International Conference on Computational Aspects of Electromechnical Energy Converters and Drives, IMACS-TC1'93, July 1993, Montreal, Canada, pp. 183-188.
34. Optimum design of three phase induction motor based on efficiency optimisation
    Faiz, J. and M.B.B. Shrifian
    6th International Conference on Electrical Machines and Drives, Sep. 1993, University of Oxford, UK, pp. 139-143.

1994

35. Comparison of different power factor improvement techniques for induction generator performance
    Faiz, J. and Roshan Milani A.
    11th International Conference on Electrical Drives and Power Electronics, October 1994, the High Tatras, Slovakia, pp. 194-198.

36. Simulation of a variable reluctance stepping motor for sinusoidal and step excitations
    Faiz, J. and Iranpour R.
    11th International Conference on Electrical Drives and Power Electronics, October 1994, the High Tatras, Slovakia, pp. 296-301.
37. A systematic design procedure for variable reluctance step motor based on permeance model
    Faiz, J. and Banan-Ali-Abasi K.
    11th International Conference on Electrical Drives and Power Electronics, October 1994, the High Tatras, Slovakia, pp. 361-366.
38. Comparison of two circuit models for simulation of a three phase squirrel-cage induction motor
    Sharifian, M.B.B and **Faiz, J.**
    11th International Conference on Electrical Drives and Power Electronics, October 1994, the High Tatras, Slovakia, pp. 378-382.
39. Simulation of a capacitor single phase induction motor using two models
    Faiz, J. and A. Servatian
    11th International Conference on Electrical Drives and Power Electronics, October 1994, the High Tatras, Slovakia, pp. 446-450.

1995

40. Transient operation of transformers
    Faiz, J. and M.B.B. Sharifian
    6th International Simposium of Electromagnetc Fields in Electrical Engineering, September 1995, Thessaloniki, Grecce, pp. 339-344.

1996

41. Simulation of induction motor using EMTP
    Faiz, J., E. Shafagh and S. Esmaeeli
    7th International Power Electronics & Motion Control Conference, September 1996, Budapest, Hungary, pp. 387-391.
42. Sensitivity studies for an induction motor steady-state operation
    Faiz, J., M. Mosavian and P. PIllay
    7th International Power Electronics & Motion Control Conference, September 1996, Budapest, Hungary, pp. 331-335.
43. Transient torque in three phase induction motor
    Faiz, J., M. Abolghasemian and G. Shahgholian
    7th International Power Electronics & Motion Control Conference, September 1996, Budapest, Hungary, pp. 78-82.
44. Steady state performance of three phase induction motors with different ratings connected to a single phase supply
    Faiz, J., Khandar, Gh.
    7th International Power Electronics & Motion Control Conference, September 1996, Budapest, Hungary, pp. 460-464
45. Evaluation of pulsating torque of a single phase induction motor using rotating field theory.
    Faiz, J., Servatian, A.
    7th International Power Electronics & Motion Control Conference, September 1996, Budapest, Hungary, pp. 465-468.

1997

46. A fast boundary element method to electric field computation within the tank of power transformers
    Faiz, J. and M. Ojaghi
    7th International Simposium of Electromagnetc Fields in Electrical Engineering, September 1997, Gdansk, Poland, pp. 235-240.
47. Hysteresis loop modelling techniques and core loss estimation of magnetic cores
    Faiz, J. and M. B. B. Sharifian
    7th International Simposium of Electromagnetc Fields in Electrical Engineering, September 1997, Gdansk, Poland, pp. 398-403.

1998

48. Design criterion for a capacitor controlled single-phase induction motor
    Faiz, J. and Servatian, A.
    the 8th International Power Electronics & Motion Control Conference, September 1998. Prague, Czech Republic, pp. 2.107-2.109
49. Effects of airgap dimensions and magnetic flux density on the performance of variable reluctance step motor
    Faiz, J. and K. Banan.
    the 8th International Power Electronics & Motion Control Conference, September 1998. Prague, Czech Republic, pp. 5.1-5.6
50. Transient performance of cascade induction motors
    Faiz, J. and Sharifian, M.B.B.
    the 8th International Power Electronics & Motion Control Conference, September 1998. Prague, Czech Republic, pp. 3.97-3.102
51. Brushless dc motors control control using artificial neural network
    Faiz, J. and Tonkaboni-pour, S.H.
    the 8th International Power Electronics & Motion Control Conference, September 1998.Prague, Czech Republic, pp. 3.103-3.107
52. Voltage dip of system on starting of large induction motors
    Faiz, J. and Sharifian, M.B.B.
    the 8th International Power Electronics & Motion Control Conference, September 1998. Prague, Czech Republic, pp. 2.125-2.129
53. Influence of optimally designed induction motors on the reduction of electrical energy consumptions
    Faiz, J. and Sharifian, M.B.B.
    1st International, Conference on Energy Research & Development (ICER), November 1998, State of Kuwait, pp. 348-358.

1999

54. Accurate modelling of single-sided linear induction motor
    Faiz, J. and Jafari
    1999 IEEE International Magnetics Conference, Digest of INTERMAG 99, p. AS19.
55. A simple speed control technique and pulsating torque elimination method in a brushless dc motor
    Faiz, J., M.A. Azami and Moallem, M.
    4th International Conference on Unconventional Electromechnical and Electrical Systems, St. Petersburrg, Russia, June 21-24, 1999, pp. 339-344.
56. Study of maximum permissible slip for synchronous motor based on actual stator current
    Faiz, J. and Pillay, P.
    4th International Conference on Unconventional Electromechnical and Electrical Systems, St. Petersburrg, Russia, June 21-24, 1999, pp. 336-350.
57. Transient of three phase induction motor supplied by unbalanced voltages
    Sharifian, M.B.B., **Faiz, J.** and Guobiao, G.
    the Third Chinese in International Conference on Electrical Machines, August 29-31, 1999, Xi'an, China, Vol. 1, pp. 72-75.
58. Comparison of optimally designed three phase squirrel-cage induction motors with industrial motor
    Faiz, J., Sharifian, M.B.B. and Guobiao, G.
    the Third Chinese in International Conference on Electrical Machines, August 29-31, 1999, Xi'an, China, Vol. 2, pp. 646-651.
59. Inrush current in parallel and cascade transformers
    Faiz, J., Sharifian, M.B.B. and Guobiao, G.
    the Third Chinese in International Conference on Electrical Machines, August 29-31, 1999, Xi'an, China, Vol. 1, pp. 425-428.
60. The switched reluctance motor drive for distributed generation
    Humiston, T, Pillay, P. and **Faiz, J.**
    5th IEEE Africon Conference in Africa, 28 September-10 October 1999, Cape Town, South Africa, Vol. 2, pp. 669-674.

2000

61. Fast response solid-state on load transformers tap-changer
    Faiz, J. and Javidnia, H.
    8th International Conference on Power Electronics and Variable Speed Drives, 18-19 September 2000, London, UK, pp. 355-359.
62. Minimization of current harmonics of DTC controller using a suitable switching pattern
    Faiz Jawad, Sharifian, Mohammad B. B. and Fedak Viliam
    9th International Conference on Power Electronics and Motion Control, EPE-PEMC 2000, Kosice, Slovakia, September 2000, Vol. 3, pp. 161-166.

2001

63. EMTP base simulation of reclosing transients in induction motors
    Jawad Faiz and M. H. Abbas-zadeh
    4th International Symposium on Advanced Electromechanical Motion Systems, 19-20 June 2001, Bologna, Italy, Vol. 1, pp. 53-57.
64. Optimum design of permanent-magnet motor for electric vehicle
    Jawad Faiz, M. Ghaneei and M. Ojaghi
    4th International Symposium on Advanced Electromechanical Motion Systems, 19-20 June 2001, Bologna, Italy, Vol. 1, pp. 293-298.

2002

65. Optimal design of brushless permanent magnet motor for electric vehicle
    Jawad Faiz
    Second International Conference on Energy Research & Development (ICERD-2), April 8-10, 2002, State of Kuwait, Vol. II, pp. 551-562.
66. Controllable output voltage for wind-driven self-excited induction generator
    Jawad Faiz
    Second International Conference on Energy Research & Development (ICERD-2), April 8-10, 2002, State of Kuwait, Vol. I.
67. Comparative study of application of fuzzy-logic field oriented and direct torque control techniques for induction motors control
    Jawad Faiz, S.H. Hosseini, G. Ahrabian, M.B.B. Sharifian and Y. Sabri
    First International Conference on Technical & Physical Problems in Power Engineering, 23-25 April 2002, Baku, Azarbaijan , pp. 99-107.
68. Optimal design and control of induction motor for electric vehicle-Part 1: Design optimization and steady-state analysis
    Jawad Faiz and M.B.B. Sharifian
    First International Conference on Technical & Physical Problems in Power Engineering, 23-25 April 2002, Baku, Azarbaijan , pp. 134-141.
69. Optimal design and control of induction motor for electric vehicle-Part 2: Dynamic Analysis
    Jawad Faiz and M.B.B. Sharifian
    First International Conference on Technical & Physical Problems in Power Engineering, 23-25 April 2002, Baku, Azarbaijan , pp. 152-159.
70. Design and performance prediction of a low-power single-phase switched reluctance motor
    Jawad Faiz
    7th International Conference on Modeling and Simulation of electric Machines, Converters and Systems (ELECTRIMACS2002), 18-21 August 2002, Montreal, Canada, in CD.
71. Torque controller for a BLDC motor with non-sinusoidal back-emf waveform
    Jawad Faiz and B. Rezaei-Alam
    7th International Conference on Modeling and Simulation of electric Machines, Converters and Systems (ELECTRIMACS2002), 18-21 August 2002, Montreal, Canada, in CD.
72. Transient performance of a salient-pole synchronous generator using phase-domain model
    Jawad Faiz and A. Rezaei-Zare
    7th International Conference on Modeling and Simulation of electric Machines, Converters and Systems (ELECTRIMACS2002), 18-21 August 2002, Montreal, Canada, in CD.

2003

73. Voltage and speed domains for an electric vehicle optimum designed three-phase induction motor
Jawad Faiz and M. Ghaneei
International Conference on Renewable Energy and Power Quality, 9-12 April 2003, Vigo, Spain, in CD.
74. Design of self-excited linear induction generator
B. Rezaee-Alam, **Jawad Faiz** and P. Famouri
4th International Symposium on Linear Drives for Industry Applications, LDIA, 2003, 8-10 September 2003, Birmingham, UK, pp. 485-488.
75. Sizing of switched reluctance machine for starter/alternator of hybrid electric vehicles
J. Faiz and K. Moayed-zadeh
6th International Power Engineering Conference, IPEC2003, 27-29 November 2003, Singapore, pp. 453-458.
76. Effect of complex voltage unbalance factor on the derating of a three-phase induction motor
J. Faiz and H. Ebrahimpour
6th International Power Engineering Conference, IPEC2003, 27-29 November 2003, Singapore, pp. 1051-1055.
77. Expansion of speed range of open-loop controlled step motors
J. Faiz and M. Gandomkar
6th International Power Engineering Conference, IPEC2003, 27-29 November 2003, Singapore, pp. 1056-1060.
78. Derating of distribution transformers for non-sinusoidal load currents using finite element method
M.B.B. Sharifian, **J. Faiz**, S.A. Fakheri and A. Zraatparvar
Published in: 10th International Conference on Electronics, Circuits and Systems, Dec. 14-17, 2003, Sharjah, United Arab Emirates, pp. 754-757.
79. Slot fringing effect on the magnetic characteristics of the electrical machines
M.B.B. Shafifian, K. Shaarbafi, **J. Faiz**, M.R. Feyzi
10th International Conference on Electronics, Circuits and Systems, Dec. 14-17, 2003, Sharjah, United Arab Emirates, pp. 778-781.

2004

80. Analytical core loss model for the switched reluctance motor with experimental verification
Jawad Faiz, B. Ganji, P. Pillay and C. Yicheng,
The 9th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM04, May 20-21, 2004, Brasov, Romania, pp. 47-52.
81. Influence of design parameters on cogging torque in PMSM using analytical model
Jawad Faiz and M. Ahmadi
The 9th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM04, May 20-21, 2004, Brasov, Romania, pp. 47-52.
82. Losses in switched reluctance generators
Jawad Faiz and Reza Fazai
The 2nd International Conference on Technical and Physical Problems in Power Engineering, 6-8 September 2004, Tabriz, Iran, pp. 51-56.
83. Remedial strategies for open-circuit faults in winding and transistors in permanent magnet BLDC motor
Jawad Faiz and M. Ahmadi
The 2nd International Conference on Technical and Physical Problems in Power Engineering, 6-8 September 2004, Tabriz, Iran, pp. 88-93.
84. Derating of a distribution transformer for non-linear loads
M. B. B. Sharifian and **Jawad Faiz**
The 2nd International Conference on Technical and Physical Problems in Power Engineering, 6-8 September 2004, Tabriz, Iran, pp. 75-80.
85. Comparative study of different torque control techniques applied to synchronous permanent magnet motors
N. Taghizadegan, **J. Faiz**, M. B. B. Sharifian and S. H. Mohseni-Zonozi
The 12th International Conference on Control and Automation, MED'04, June 6-9, 2004, Kusadasi, Aydin, Turkey, (in CD)
86. Implementation of sensorless DTC technique for speed control of induction motor using a novel switching pattern

M. B. B. Sharifian and **Jawad Faiz**
The 5th Chinese International Conference on Electrical Machines, Xian, China, 2004, August 2004, pp. 379-383.

87. Different switching patterns in DTC of IM
M. B. B. Sharifian and **Jawad Faiz**
The 5th Chinese International Conference on Electrical Machines, Xian, China, 2004, August 2004, pp. 384-388.
88. Modeling and dynamic simulation of induction machine under mixed eccentricity conditions using winding function
E. Sharifi-Ghazvini, **J. Faiz**, I. Tabatabaei-Ardekani, A. Shirani
International Conference of Cigre, September 2004, Paris, France (in CD).
89. Fault diagnosis in permanent magnet brushless direct current motors
Jawad Faiz and Majid Ahmadi
7th International Conference on Electrical Machines and Systems, November 2004, Jeju Island, Korea (in CD).
90. Performance simulation of high- and medium-speed single-sided linear induction motors
Jawad Faiz and H. Jafari
7th International Conference on Electrical Machines and Systems, November 2004, Jeju Island, Korea (in CD).
91. Analysis and simulation of load-frequency control in steam turbine and parameters variation effects
Jawad Faiz, Ghazanfar Shahgholian and Homayon Ghazizadeh
7th International Conference on Electrical Machines and Systems, November 2004, Jeju Island, Korea (in CD).
92. Effects of parameters variations in the frequency-load control system of a hydro-turbine
Jawad Faiz and Ghazanfar Shahgholian
7th International Conference on Electrical Machines and Systems, November 2004, Jeju Island, Korea (in CD).
93. Harmonic reduction in pulse-width modulation inverter
Jawad Faiz and Ghazanfar Shahgholian
7th International Conference on Electrical Machines and Systems, November 2004, Jeju Island, Korea (in CD).
94. Analysis and simulation of a single-phase UPS inverter with output multiple filter
Jawad Faiz and Ghazanfar Shahgholian
7th International Conference on Electrical Machines and Systems, November 2004, Jeju Island, Korea (in CD).
95. Incipient fault tolerance for open-phase and power switch disconnection in permanent magne brushless direct current motor.
J. Faiz and M. Ahmadi
3rd International Conference on Electrical and Power Engineering. October 7-8 2004, Lasi, Romania, pp. 997-1002.

2005

96. A new technique for pulse-width-modulation usibg direct torque control of a virtual motor
Jawad Faiz and A.H. Pouramini
IEEE International Electric Machines and Drives Conference, May 15-18 2005, San Antonio, Texas, USA, pp. 962-966. (in CD).
97. Harmonic balance hybrid finite element-boundary element method including time periodic movement
Behrooz Rezaeealam, Sotoshi Yamada and **Jawad Faiz**
The Fifth International Symposium on Linear Drives for Industry applications, September 25-28, 2004, Kobe-Awaji, Japan, pp. 45-48.
98. Direct Force Control of Linear Permanent Magnet Synchronous Motors
Jawad Faiz, Iman Tabatabaei-Ardakani and S. H. Mohseni-Zoonozi
The Fifth International Symposium on Linear Drives for Industry applications, September 25-28, 2004, Kobe-Awaji, Japan, pp. 124-127.
99. Analysis of reciprocating self-excited induction generator using harmonic balance finite element method
Jawad Faiz, Behrooz Rezaeealam and Sotoshi Yamada

The Fifth International Symposium on Linear Drives for Industry applications, September 25-28, 2004, Kobe-Awaji, Japan, pp. 45-48.

100. Analysis of High-Speed Linear Induction Motors with Slotted Secondary
Mehran Mirzayee, Mojtaba Mirsalim**, Jawad Faiz** and Mojtaba Ghodsi
The Fifth International Symposium on Linear Drives for Industry applications, September 25-28, 2004, Kobe-Awaji, Japan, pp. 164-167.
101. Precise Derating of Three-phase Induction Motors with Unbalanced Voltages
Jawad Faiz and H. Ebrahimpour
2005 Industry applications Conference, Fortieth IEEE/IAS Annual Meeting, 2-5 October 2005, Kawloon, Hong Kong, (CD).
102. A New Developed Pulse Width Modulation for Supplying Induction Motors
Jawad Faiz and A. H. Pouramini
The Eighth International Conference on Electrical Machines and Systems, September 2005, 27-29, Nanjing, P.R. China, pp. 2380-2383.
103. Design and Implementation of a Solid-state Controller for Regulation of Output Voltage of a Wind-Driven Self-Excited Three-Phase Squirrel-cage Induction Generator
Jawad Faiz
The Eighth International Conference on Electrical Machines and Systems, September 27-29, 2005, Nanjing, P.R. China, pp. 2384-2388.
104. Simulation of Induction Motor using Small Pertutbation around Operating Point of Motor
Jawad Faiz and Ghazanfar Shahgholian
The Eighth International Conference on Electrical Machines and Systems, September 27-29, 2005, Nanjing, P.R. China, pp. 2395-2400.

2006

105. Distribution of magnetic field of power lines with different configuration
J. Faiz and M. Tarafdar-Haque
2006 IEEE Power India Conference, April 10-12, 2006, New Delhi, India (in CD)
106. Effect of eccentricity on the accuracy of rotor position estimation techniques in switched reluctance motor drives (Abstract)
J. Faiz and S. Pakdelian
IEEE International Magnetic Conference (Intermag2006) , 9-12 May 2006, San Diego, CA, USA, p 600.
107. Effect of excited phases overlapping on the performance of switched reluctance motors
Jawad Faiz and Gh. Soltani-Khosroshahi
The 2006 Electrical Engineering/Electronic, Computer, Telecommunications and Information Technology (ECTI) International Conference, May 10-13, 2006, Ubon Ratchathani, Thailnad, pp. 84-87.
108. Simulation of a single-phase UPS inverter with rectifier load
Jawad Faiz and Gh. Shahgholian
The 2006 Electrical Engineering/Electronic, Computer, Telecommunications and Information Technology (ECTI) International Conference, May 10-13, 2006, Ubon Ratchathani, Thailnad, pp. 417-420.
109. Effect of static eccentricity on the characteristics of a switched reluctance motor
Siavash Pakdelian and **Jawad Faiz**
16th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM06), May 18-19, 2006, Brasov, Romania (in CD).
110. Rotor broken bar diagnosis in three-phase squirrel-cage induction motors
Jawad Faiz and B.M. Ebrahimi
Asia-Pacific Symposium on Applied Electromagnetics and Mechanics (APSAEM2006), 19-21 July, University of Technology, Sydney, Australia, p. 99 (Digest Book).
111. Electromagnetic modeling of switched reluctance motor by finite element method
J. Faiz, B. Ganji, R.W. De Doncker and J.O. Fiedler
Asia-Pacific Symposium on Applied Electromagnetics and Mechanics (APSAEM2006), 19-21 July, University of Technology, Sydney, Australia, p. 100 (Digest Book).
112. Diagnosis of eccentricity in switched reluctance motors based on measurement of mutually induced voltages
Jawad Faiz and Siavash Pakdelian
Asia-Pacific Symposium on Applied Electromagnetics and Mechanics (APSAEM2006), 19-21 July, University of Technology, Sydney, Australia, p. 101 (Digest Book).

113. Steady-state analysis of a static eccentricity in induction motor using time stepping finite element technique
Jawad Faiz and B.M. Ebrahimi
Asia-Pacific Symposium on Applied Electromagnetics and Mechanics (APSAEM2006), 19-21 July, University of Technology, Sydney, Australia, p. 106 (Digest Book).
114. Time stepping finite element analysis of broken bars fault in a three-phase squirrel-cage induction motor
Jawad Faiz, Bashir Mahdi Ebrahimi and Mohammad Bagher Bannae Sharifian
XVII International Conference on Electrical Machines, September 2-5, Chanio, Crete Island, Greece, Paper No. 392 (in CD).
115. Analysis of induction motor static eccentricty using time stepping finite element
Mohammad Bagher Bannae Sharifian, **Jawad Faiz** and Bashir Mahdi Ebrahimi
XVII International Conference on Electrical Machines, September 2-5, Chanio, Crete Island, Greece, Paper No. 289 (in CD).
116. Steady-state analysis of a mixed faults three-phase squirrel-cage induction motor using time stepping finite element method
Bashir Mahdi Ebrahimi**, Jawad Faiz** and Mohammad Bagher Bannae Sharifian
XVII International Conference on Electrical Machines, September 2-5, Chanio, Crete Island, Greece, Paper No. 391 (in CD).
117. Optimal Excitation Angles of a High Speed Switched Reluctance Generator by Efficiency Maximization
Jawad Faiz and Reza Fazai
12th International Power Electronics and Motion Control Conference, August 30-September 1, 2006, Portoroz, Slovenia, pp. 287-291 (in CD).
118. Optimal Design of Internal Permanent Magnet Motor for Starter/Generator of Hybrid Electric Vehicle
Jawad Faiz and Babak Keyvani-Boroujeni
12th International Power Electronics and Motion Control Conference, August 30-September 1, 2006, Portoroz, Slovenia, pp. 984-990, (in CD).
119. Fault Tolerance for Phase Open-circuit and Power Electronic Switch Disconnection in PMBDC Motor by Adding Extra Parts to Inverter
Jawad Faiz1, Majid Ahmadi1 and Azeem Khan
12th International Power Electronics and Motion Control Conference, August 30-September 1, 2006, Portoroz, Slovenia, pp. 991-995, (in CD).
120. Finite Element Analysis of Switched Reluctance Motor under Dynamic Eccentricity Fault
Jawad Faiz and Siavash Pakdelian
12th International Power Electronics and Motion Control Conference, August 30-September 1, 2006, Portoroz, Slovenia, pp.1042-1046, (in CD).
121. Electromagnetic Modeling of Switched Reluctance Motor Using Finite Element Method
J. Faiz, B. Ganji R. W. De Doncker, J. O. Fiedler
IEEE Industrial Electronics Conference 2006 (IECON'06), France, Paris, September 2006, pp. 1557-1562

2007

122. Analysis and simulation of the AVR system and parameters variation effects
J. Faiz, Gh. Shahgholian and M. Arezoomand
International Conference on Power Engineering, Energy and Electrical Drives, 12-14 April 2007, Setubal, Portugal, pp. 450-453, (in CD).
123. Influence of vector control algorithm on stator current harmonics in three-phase squirrel-cage induction motors under mixed eccentricity,
I. Tabatabaei Ardekani and **Jawad Faiz**
International Electric Machines and Drives Conference (IEMDC'07), May 3-5, 2007, Antalya, Turkey, pp. 495-502, (in CD).
124. Diagnosis of a mixed eccentricity fault in a squirrel-cage three-phase induction motor using time-stepping finite element rechnique
Jawad Faiz, B.M. Ebrahimi, H.A. Toliyat and B. Akin
International Electric Machines and Drives Conference (IEMDC'07), May 3-5, 2007, Antalya, Turkey, pp. 1446-1450, (in CD).
125 Influence of Load Fluctuations upon Diagnosis of Mixed Eccentricity Fault in Induction Motors using Time Stepping Finite Element Method (in Digest CD).

Jawad Faiz and B.M. Ebrahimi
16th International Conference on the Computation of Electromagnetic Fields, Achen Germany,July 2007, p. 717.

126. Electromagnetic interference in pulse width modulation inverter: classification, analysis and modeling
Jawad Faiz and Ghazanfar Shahgholian
14th International Symposium on Power Electronics (Ee2007), Nov. 7-9, 2007, Navi Sad, Republic of Serbia, (in CD)
127. Design of a robust linear controller for proper tracking in frequency domain
Jawad Faiz, Mohsen Arezoomand and Ghazanfar Shahgholian
14th International Symposium on Power Electronics (Ee2007), Nov. 7-9, 2007, Navi Sad, Republic of Serbia, (in CD)
128. Minimum capacitance requirement for starting a self-excited induction generator
Jawad Faiz and A. Hasanzadeh
14th International Symposium on Power Electronics (Ee2007), Nov. 7-9, 2007, Navi Sad, Republic of Serbia, (in CD)
129. A Criterion Function for Broken Bar Fault Diagnosis in Induction Motor under Load Variation using Wavelet Transform
Jawad Faiz, B.M. Ebrahimi, B. Asaie, R. Rajabioun, and H. A. Toliyat
Proceedings of International Conference on Electrical Machines and Systems 2007, Oct. 8~11, Seoul, Korea

2008

130. Optimal Design of a Small PM Wind Synchronous Generator for Wide Range of Winds Speed. (Digest-CD)
B. Ebrahimi, **J. Faiz**, M. Rajabi Sebdani, M. A. Khan
IEEE International Magnetics Conference, Intermag08, Madrid, Spain, May 2008, p. 745.
131. An Extension to Multiple Coupled Circuits Modeling of Induction Machines to Include Variable Degrees of Saturation Effects. (Digest-CD)
M. Ojaghi, **J. Faiz**
IEEE International Magnetics Conference, Intermag08, Madrid, Spain, May 2008, p. 787.
132. Static Eccentricity Fault Diagnosis in Permanent Magnet Synchronous Motor using Time Stepping Finite Element Method. (Digest-CD)
B. Ebrahimi, **J. Faiz**, A. Zargham Nejhad
IEEE International Magnetics Conference, Intermag08, Madrid, Spain, May 2008, p. 1155.
133. Time Stepping Finite Element Analysis of Distribution Transformers Performance under Unbalanced Voltage and Load. (Digest-CD)
Jawad Faiz, B.M. Ebrahimi, R. Rajabioun and M. Ghofrani
13th Biennial IEEE Conference on Electromagnetic Field Computation, Athens, Greece, May 11-15, 2008, p. 76.
134. Dynamic Eccentricity Fault Diagnosis in Induction Motors under Varying Load using Time Stepping Finite element Method. (Digest-CD)
Jawad Faiz, B.M. Ebrahimi, B. Akin and H.A. Toliyat
13th Biennial IEEE Conference on Electromagnetic Field Computation, Athens, Greece, May 11-15, 2008, p. 161.

13٥. Mixed Eccentricity Fault Diagnosis in salient Pole Synchronous Generator using Modified Winding Function. (Digest-CD)
Jawad Faiz, B.M. Ebrahimi, and M. Valavi
13th Biennial IEEE Conference on Electromagnetic Field Computation, Athens, Greece, May 11-15, 2008, p. 162.

13٦. Inductance Estimation of Salient-Pole Synchronous Generator under Static and Dynamic Fault using Modified Winding Method
Jawad Faiz, Mostafa Valavi and Bashir Mahdi Ebrahimi
Asia-Pacific Symposium on Applied Electromagnetics and Mechanics, Bangkok, Thailand, July 24-25, 2008, pp. 51-54. (in CD)
137. Performance of Distribution Transformer under Non-linear Loads
Jawad Faiz, M. Ghofrani and B.M. Ebrahimi
Asia-Pacific Symposium on Applied Electromagnetics and Mechanics, Bangkok, Thailand, July 24-25, 2008, pp. 59-62. (in CD)

138. Design Optimization of Permanent Magnet Wind Generator-Maximizing Power to Weight Ratio and minimizing Machine Active Materials and Magnet Volumes
Jawad Faiz, M. Rajabi-Sebdani, B.M. Ebrahimi and M.A. Khan
Asia-Pacific Symposium on Applied Electromagnetics and Mechanics, Bangkok, Thailand, July 24-25, 2008, pp. 181-184. (in CD)/
139. Mixed-Derating of Three-Phase Distribution Transformer under Unbalanced Supply Voltage and Non-linear Load Conditions Using Finite Element Method
Jawad Faiz, M. Ghofrani and B.M. Ebrahimi
The 7th International Conference on Scientific Computing Engineering (SCEE2008), September 28-October 3, 2008, Helsinki University of Technology, Espoo, Finland, pp. 49-51.
140. Design Optimization of Radial Flux Permanent Magnet Wind Generator for Highest Annual Input and Lower Magnet Volumes
Jawad Faiz, R. Rajabioun, B.M. Ebrahimi, and M.A. Khan
The 7th International Conference on Scientific Computing Engineering (SCEE2008), September 28-October 3, 2008, Helsinki University of Technology, Espoo, Finland, pp. 53-55.
141. A Novel Algorithm for Determination of Reactive Currents in STATCOM for Voltage Flicker Mitigation
Jawad Faiz and Ali Zafari
2nd International Conference on Electrical Systems Design & Technologies, Hammamet, Tunisia, Nov. 8-10, 2008 (in CD).
142. Design of Switched Reluctance Generator for Converting Wind Energy
Jawad Faiz and Reza Fazaei
4th International Conference on Energy Research and Development, Kuwait, Nov. 17-19 2008 (in CD).
143. Effects of Unbalanced Supply on Performance of Three-phase Squirrel-cage Induction Motors
Jawad Faiz and Hamid Ebrahimpour
4th International Conference on Energy Research and Development, Kuwait, Nov. 17-19 2008 (in CD)
144. Sensorless Nonlinear Control of a Doubly Fed Induction Generator Using MRAS Observers
Naser Hashemnia and **Jawad Faiz**
2nd IEEE International Conference on Power and Energy (PECon 08), December 1-3, 2008, Johor Baharu, Malaysia (in CD).

2009

145. Design and Simulation of a 250 kW Linear Permanent Magnet Generator for Wave Energy to Electric Energy Conversion
Jawad Faiz and M. Ebrahimi-salari
International Conference 2009 Supergen, Hohai University, Nanjing, China, April 6-7, 2009 (in CD)
146, Optimal Design of Permanent Magnet Synchronous Generator for Wind Energy Conversion Considering Annual Energy Input and Magnet Volume
Jawad Faiz, Bashir Mahdi Ebrahimi and M. Rajabi-Sebdani and A, Khan
The Seventh International Conference on Semiconductor, Micro- and Nanoelectronics Tsakhcadzop, Armenia, July 3-5, pp. 224-227.
147. Modeling and Simulation of a Three-phase Inverter with Rectifier-type Non-linear Loads
Jawad Faiz and Ghazanfar Shahgholian
The Seventh International Conference on Semiconductor, Micro- and Nanoelectronics Tsakhcadzop, Armenia, July 3-5, pp. 224-227.
148, Analysis and Simulation of a Three-phase UPS inverter with Output Multiple-filter
Jawad Faiz, Ghazanfar Shahgholian and Mehdi Mahdavian
The Seventh International Conference on Semiconductor, Micro- and Nanoelectronics Tsakhcadzop, Armenia, July 3-5, pp. 224-227. (N.A.)
149. Derating of Distribution Transformers under Non-sinusoidal Supply Voltages and Unbalanced Non-Linear Loads
Jawad Faizm, Ashkan Farazmand and Bshir Mahdi Ebrahimi
IEEE International Conference on Soft Magnetic Materials (SMM19), Torino, Italy, 6-9 September 2009, Paper H1-03 (Abstract).
150. Extended flux tubes method for calculation of the flux densities waveforms in various sections of a switched reluctance motor
Mojtaba Babaie, **Jawad Faiz**, Bshir Mahdi Ebrahimi and Maryam Bahramgiri
IEEE International Conference on Soft Magnetic Materials (SMM19), Torino, Italy, 6-9 September

2009, Paper H1-04 (Abstract).

151. Inrush Current Modeling in a Single-phase Transformer
Jawad Faiz and S. Saffari
IEEE International Conference on Soft Magnetic Materials (SMM19), Torino, Italy, 6-9 September 2009, Paper H1-08 (Abstract).
152. Influence of magnetic saturation on precise diagnosis of broken rotor bars in induction motors
Bshir Mahdi Ebrahimi and **Jawad Faiz**
IEEE International Conference on Soft Magnetic Materials (SMM19), Torino, Italy, 6-9 September 2009, Paper H2-08 (Abstract).
153. Cogging Force Alleviation in Linear Permanent Magnet Generators
Jawad Faiz, Mahdi Ebrahimi-salary and Gh. Shahgholian
IEEE Africon 2009, 23-25 September 2009, Nairobi, Kenya, (in CD).
154. Analysis and simulation of speed control for two-mass resonant system
Ghazanfar Shahgholian, Jawad Faiz and Pegah Shafaghi
Second International Conference on Computer and Electrical Engineering, 28-30 Dec. 2009, UEA, Dubai, pp. 66-70.
155. Nonlinear Control techniques in uninterruptible power supply inverter: A review
Ghazanfar Shahgholian, Jawad Faiz and Pegah Shafaghi
Second International Conference on Computer and Electrical Engineering, 28-30 Dec. 2009, UEA, Dubai, pp. 51-55.
156. Effects of load variation on eccentricity fault diagnosis in round rotor synchronous motors
Bashir Magdi Ebrahimi, Mohammad Etemad Rezaie and **Jawad Faiz**
17th International Conference on the Computation of Electromagnetic Fields, Nov. 22-26, 2009, Florianopolis, Brazil, paper PC6.10, p. 775 (Abstract in CD).
157. Time-stepping finite element analysis of a salient-pole round-rotor synchronous generators under dynamic eccentricity fault.
Jawad Faiz, Mojtaba Babaie, Bashir Mahdi Ebrahimi and Jalal Nazarzadeh
17th International Conference on the Computation of Electromagnetic Fields, Nov. 22-26, 2009, Florianopolis, Brazil, paper PC6.15 p. 785. (Abstract in CD).
158. Demagnetized permanent-magnet fault recognition in synchronous motors
Bashir Mahdi Ebrahimi and **Jawad Faiz**
17th International Conference on the Computation of Electromagnetic Fields, Nov. 22-26, 2009, Florianopolis, Brazil, paper PD4.13 p. 1050. (Abstract in CD).
159. Studying the effect of location of tap-changer switch on maximum flux density of magnetic core
Farzad Zhalefar, Mehrdad Kalantari and **Jawad Faiz**
International Colloquium Transformer Reasech and asset Management, Cavtat, Croatia, November 12-14, 2009.

2010

160. Analysis of dynamic behavior of switched reluctance motor-Design parameters effects
Jawad Faiz, Gh. Shahgholian and H. Ghazizadeh
The 15th IEEE Mediterranean Electrotechnical Conference, 26-28 April, 2010, Malta, pp. 532-537. (in CD)
161. Performance analysis of three-phase transformers under unbalanced conditions using finite element method
A. Frazmand, **J. Faiz** and B.M. Ebrahimi
3rd Symposium on Applied Electromagnetics, May 30-June 2, 2010, pp. 9-10 (Abstract), Ptuj, Slovenia.
162. Eccentricity fault diagnosis in induction motors using analytical model
Jawad Faiz, Hamid Ebrahimi and and Bashir-Mahdi Ebrahimi
3rd Symposium on Applied Electromagnetics, May 30-June 2, 2010, pp. 37-38 (Abstract), Ptuj, Slovenia.
163. Performance analysis of three-phase transformers under unbalanced conditions using finite element method
Bashir-Mahdi Ebrahimi, **Jawad Faiz** and A. Hassanpour Isfahani
3rd Symposium on Applied Electromagnetics, May 30-June 2, 2010, pp. 79-80 (Abstract), Ptuj, Slovenia
164. Performance analysis of line-start interior permanent magnet motors in comparison with induction motors
Bashir-Mahdi Ebrahimi and **Jawad Faiz**
The 6th Asia-Pacific Symposium on Applied Electromagnetics and Mechanics, July 28-30, 2010,

Kual Lumpur, Malaysia, pp. 329-332. (CD).

165. Influence of load fluctuations on static eccentricity fault diagnosis of three-phase squirrel-cage induction motors
Hamid Ebrahimi, **Jawad Faiz** and Bashir-Mahdi Ebrahimi
The 6th Asia-Pacific Symposium on Applied Electromagnetics and Mechanics, July 28-30, 2010, Kuala Lumpur, Malaysia, pp. 333-336. (CD).
166. Finite Element Analysis of Three-phase Transformers under Unbalanced Non-linear Loads
A. Frazmand, **J. Faiz** and B.M. Ebrahimi
The 14th International IGTE Symposiumon Numerical Field Calculation in electrical Engineering, September 20-22, 2010, Graz, Austria, pp. 308-313 (in CD).
167. Different Modeling Techniques for Faulty Induction Motors- A Review.
Jawad Faiz, Hamid Ebrahimi and Bashir Mahdi Ebrahimi
The 14th International IGTE Symposiumon Numerical Field Calculation in electrical Engineering, September 20-22, 2010, Graz, Austria, pp. 314-319 (in CD).
168. Three-dimensional Magnetic Field Evaluation of Induction Motors under Static Eccentricity Fault
Jawad Faiz, Mostafa Valavi and Bashir Mahdi Ebrahimi
The 14th International IGTE Symposiumon Numerical Field Calculation in electrical, Engineering, September 20-22, 2010, Graz, Austria, pp. 367-372 (in CD).
169. Global Indices Analysis for Eccentricity Fault Diagnosis in induction Motors
Bashir Mahdi Ebrahimi, Jawad Faiz, Mehrsan Javan Roshtkhari and Babak N. Araabi
The 14th International IGTE Symposiumon Numerical Field Calculation in electrical Engineering, September 20-22, 2010, Graz, Austria, pp.459-464 (in CD).
170. Operation, Modeling, Control and Applications of Static Synchronous Compensator: A Review
Ghazanfar Shahgholian, **Jawad Faiz**, Bahador Fani, Mohammad Reza Yousefi
The 9th International Power Engineering Conference (IPEC 2010), Oct. 26-29 2010, Singapore, pp. 596-601.
171. Design and Simulation of UPFC for Enhancement of Power Quality in Transmission Lines
Jawad Faiz, Ghazanfar Shahgholian and Mehdi Torabiyan
2010 International Conference on Power System Technology (POWERCON2010), 24-28, October, 2010, Hangzhou, China (CD).
172. Performance Improvement of a Linear Permanent Magnet Synchronous Motor Drive usin Fuzzy Logic Controller
Jawad Faiz, Mehdi Manoochehri and Ghazanfar Shahgholian
2010 International Conference on Power System Technology (POWERCON2010), 24-28, October, 2010, Hangzhou, China (CD).
173. Adaptive Motor Current Signature Analysis for Condition Monitoring of Induction Machines
Jawad Faiz, I. Tabatabaei Ardekani
2010 International Conference on Power System Technology (POWERCON2010), 24-28, October, 2010, Hangzhou, China (CD).

2011

174. Conducted EMI Modeling and Reduction in a Flyback Switched Mode Power Supply
M. R. Yazdani, H. Farzanehfard and **J. Faiz**
2nd Power Electronic, Drive Systems & Technologies Conference (PEDSTC2011), Feb. 16-17, 2011,Tehran, Iran (in CD).
175. Wave Power Resource in Iran for Electrical Power Generation
Jawad Faiz, M. Ebrahimi-salari
World Renewable Energy Congress 2011, 8-13 May 2011, Linkoping, Sweden (in CD).
176. Optimal Design of a Small Permanent Magnet Wind Generator for Rectified Loads
Jawad Faiz, Nariman Zareh
World Renewable Energy Congress 2011, 8-13 May 2011, Linkoping, Sweden (in CD).
177. Modification of Gyration Radius for Accurate Eccentricity Fault Detection in Induction Motors
Bashir Mahdi Ebrahimi, Mostafa Valavi and **Jawad Faiz** (Abstract- in CD).
18th International Conference on the Computation of Electromagnetic Fields (Compumag 2011), 12-15 July 2011, Sydney, Australia.
178. Application of Finite Element Methods for Accurate Derating of Distribution Transformers under Simultaneous Non-sinusoidal Supply Voltages and Nonlinear Loads (Abstract- in CD).

Jawad Faiz, Bashir Mahdi Ebrahimi and Ashkan Farazmand
18th International Conference on the Computation of Electromagnetic Fields (Compumag 2011), 12-15 July 2011, Sydney, Australia.

179. Configuration Impacts on Eccentricity Fault Detection in Permanent Magnet Synchronous Motors (Abstract- in CD).
Bashir Mahdi Ebrahimi and **Jawad Faiz**
18th International Conference on the Computation of Electromagnetic Fields (Compumag 2011), 12-15 July 2011, Sydney, Australia.
180. A Novel Analytical Method for Loss Calculation in Line-Start and Inverter-Fed Induction Motors under Broken Bars Fault (Abstract- in CD).
Bashir Mahdi Ebrahimi, Amir Masoud Takbash and **Jawad Faiz**
18th International Conference on the Computation of Electromagnetic Fields (Compumag 2011), 12-15 July 2011, Sydney, Australia.
181. Fault Diagnosis in Permanent Magnet Synchronous Motors- An Overview (Invited Paper- Keynote Lectuture)
Jawad Faiz and Bashir Mahdi Ebrahimi
10th International Conference on applied Electromagnetics, September 25-29, 2011, Nis, Serbia, pp. 11-16.
182. Impact of Magnetic Saturation on Accurate Broken Rotor Bars Fault Detection in Induction Motors
Bashir Mahdi Ebrahimi and **Jawad Faiz**
10th International Conference on applied Electromagnetics, September 25-29, 2011, Nis, Serbia, pp. 71-74.
183. Analytical Estimation of Flux Waveforms in 8/6 Switched Reluctance Motors Based on Excitation of Flux Tube Method
Mojtaba Babaei, **Jawad Faiz**, Maryam Bahramgiri and Sohrab Amini
10th International Conference on applied Electromagnetics, September 25-29, 2011, Nis, Serbia, pp. 75-81.
184. Computation of Static and Dynamic Axial and Radial Forces on Power Transformer Winding Due to Inrush and Short Circuit Currents
Jawad Faiz, B. M. Ebrahimi and Wejdan Abu-Elhaija
2011 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technology Dec. 6-8, 2011, Amman, Jordan, pp. 11-18.
185. Calculating leakage inductances of pancake windings in dry-type Traction transformers
Azizian, D., Vakilian, M., **Faiz**, J., Bigdeli, M.
8th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), 17-19 May 2011, Thailand, pp. 808-811.
186. Induction motors performance study under various voltage sags using simulation
Ojaghi, M., **Faiz, J.**, Shahrouzi, H., Alimohammadi, S.
International Conference on Electrical Machines and Systems (ICEMS), Beijing, China, 2011, pp. 1 – 6.
187. Comparison of Different Electrical Energy Generation Systems in Wind Turbines
Jawad Faiz and M. N. Hashemnia
2nd International Conference on Built Environment and Sustainable Development (MACDES.2011), Havana, Cuba, Nov. 2011 (in CD).
188. A Novel Generator for Converting Wave Energy into Electrical Energy in Low-depth Regions
Jawad Faiz and Mahdi Ebrahimi-Salari
2nd International Conference on Built Environment and Sustainable Development (MACDES.2011), Havana, Cuba, Nov. 2011 (in CD).

2012

189. Performance Improvement of a Switched Reluctance Motor
Jawad Faiz, F. Tahvilipour, and G. Shahgholian
PIERS Proceedings, Kuala Lumpur, MALAYSIA, March 27-30, 2012. pp. 728-732.
190. A Novel Generator for Converting Wave Energy into Electrical Energy in Semi-depth and Low-depth Regions
Jawad Faiz and Mahdi Ebrahimi-Salari
2nd International \100% Renewable Energy Conference and Exhibition (IRENEC 2012), 28-30 June 2012, Istanbul, Turkey, pp. 240-247.

191. A New Analytical Technique for Losses Estimation of Broken Rotor Bars Induction Motors with Different Control Strategies
Jawad Faiz, Bashir Mahdi Ebrahimi and Amir Masoud Takbash
The 7th Asia Pacific Symposium on Applied Electromagnetics and Mechanics, July 25-27, Ho Chi Minh City, Vietnam, pp. 86-91.
192. An Analytical Method for Modeling Induction Motors with Bars Breakage Fault
Jawad Faiz, Bashir Mahdi Ebrahimi and Vahid Ghorbanian
The 7th Asia Pacific Symposium on Applied Electromagnetics and Mechanics, July 25-27, Ho Chi Minh City, Vietnam, pp. 92-97.
193. Teaching Electrical Machinery in Undergraduate Course
Jawad Faiz
The 7th Asia Pacific Symposium on Applied Electromagnetics and Mechanics, July 25-27, Ho Chi Minh City, Vietnam, pp. 114-119.
194. Pspice-Assisted Dynamic Modeling and Simulation of a Hard Disk Drive Spindle Motor
Jawad Faiz and Masour Ojaghi
The 7th Asia Pacific Symposium on Applied Electromagnetics and Mechanics, July 25-27, Ho Chi Minh City, Vietnam, pp. 444-450.
195. Enhancement of Maximum Starting Torque and Eficiency in Permanent Magnet Synchronous Motor.
Jawad Faiz, Vahid Ghorbanian and Bashir Mahdi Ebrahimi
The 15th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, September 17-19, 2012.
Graz, Austria, p. 125-130..
196. Core Losses Estimation Techniques in Electrical Machines wit Different Supplies- A Review
Jawad Faiz, Amir Masoud Takbash and Bashir Mahdi Ebrahimi
The 15th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, September 17-19, 2012.
Graz, Austria, p. 131-136.
197. Application of Signal Processing Tools for Fault Diagnosis in Induction Motors- A Review
Jawad Faiz, Amir Masoud Takbash, Bashir Mahdi Ebrahimi and Subhasis Nandi
The 15th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, September 17-19, 2012.
Graz, Austria, p. 315-320.
198. Saturable Model of Squirrel-cage Induction Motors under Stator Inter-turn FaultCore Losses Estimation Techniques in Electrical Machines with Different Supplies- A Review
Jawad Faiz, Mansour Ojaghi and Mahdi Sabouri and Bashir Mahdi Ebrahimi
The 15th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, September 17-19, 2012.
Graz, Austria, p. 220-225.
199. A Survey on Condition Monitoring and Fault Diagnosis in Line-start and Inverter-fed Broken Bar Induction Motors
Jawad Faiz, Vahid Ghorbanian and Bashir Mahdi Ebrahimi
2012 IEEE International Conference on Power Electronics, Drives and Energy Systems December16-19, 2012, Bengaluru, India (in CD).
200. A New Criterion for Rotor Broken Bar Fault Diagnosis in Line-start and Inverter-fed Induction Motors using Hilbert-Huang Transform
Jawad Faiz, Vahid Ghorbanian and Bashir Mahdi Ebrahimi
2012 IEEE International Conference on Power Electronics, Drives and Energy Systems December16-19, 2012, Bengaluru, India (in CD).
201. Eccentricity Fault Diagnosis in Induction Motors using Global Processors- A Review
W. S. Abu- Elhaija, A. M. Takbash, **Jawad Faiz**, Bashir Mahdi Ebrahimi
2012 IEEE International Conference on Power Electronics, Drives and Energy Systems December16-19, 2012, Bengaluru, India (in CD).
202. Impact of Closed-loop Control on Behavior of Inverter-fed Induction Motors with Rotor Broken-Bars Fault
W. S. Abu- Elhaija, Vahid Ghorbanian, **Jawad Faiz**, Bashir Mahdi Ebrahimi
2012 IEEE International Conference on Power Electronics, Drives and Energy Systems December16-19, 2012, Bengaluru, India (in CD).

2013

203. Detailed Performance Analysis of Salient-pole Synchronous Generator under Dynamic Eccentricity Fault
H. Ehya, **Jawad Faiz** and W.S. Abu-Elhaija
The 8th Jordanian International Electrical & Electronics Conference, 16-18 April 2013, Amman, Jordan, pp. 189-194.
204. Three-Dimensional Magnetic Equivalent Circuit Modeling of Induction Motor
Jawad Faiz, Mahmud Ghasemi Bijan, Bashir Mahdi Ebrahimi and W.S. Abu-Elhaija
The 8th Jordanian International Electrical & Electronics Conference, 16-18 April 2013, Amman, Jordan, pp. 201-206.
205. New Optimal Configurations for Two-phase Switched Reluctance Motors
Jawad Faiz, Hossein Ehya and W.S. Abu-Elhaija
The 8th Jordanian International Electrical & Electronics Conference, 16-18 April 2013, Amman, Jordan, pp. 207-212.
206. Derating of three-phase squirrel-cage induction motor under broken bars fault
Jawad Faiz, Amir Takbash
11th International Conference on Applied Electromagnetics, PES 2013, 1-4 September 2013, Nis, Serbia (in CD).
207. Improvement of induction machine inductances estimation based onmachine geometry
Mahmoud Ghasemi Bijan, **Jawad Faiz**
11th International Conference on Applied Electromagnetics, PES 2013, 1-4 September 2013, Nis, Serbia (in CD)
208. Faults diagnosis in power transformers (Keynote speech)
Jawad Faiz, Reza Hydarabadi
11th International Conference on Applied Electromagnetics, PES 2013, 1-4 September 2013, Nis, Serbia (in CD).
209. Broken bars fault diagnosis in industrial induction motors using current envelope modulation via TSDM
Jawad Faiz, Vahid Ghorbanian, Hossein Ehya
11th International Conference on Applied Electromagnetics, PES 2013, 1-4 September 2013, Nis, Serbia (in CD).
210. Dynamic eccentricity fault diagnosis in a salient pole synchronous generator
Jawad Faiz, Hossien Ehya
11th International Conference on Applied Electromagnetics, PES 2013, 1-4 September 2013, Nis, Serbia (in CD).
211. Cogging torque reduction in a single-phase surface-mounted permanent magnet motor by locating PM in different positions
Jawad Faiz, Amir Hossein Tavakol-zadeh and Ghzanfar Shahgholian
11th International Conference on Applied Electromagnetics, PES 2013, 1-4 September 2013, Nis, Serbia (in CD)

2014

212. An Experimental/Simulation Investigation to Mixed Eccentricity Fault Diagnosis of Induction Motors under DTC
Mansour Ojaghi and **Jawad Faiz**
2014 IEEE International Conference on Industrial Technology (ICIT), Feb. 26-Mar. 1, 2014, Busan, Korea, pp. 143-148.
213. Dynamic and Static Eccentricity Fault Diagnosis in Salient-pole Synchronous Generator using Time Stepping Finite Element Method
Jawad Faiz, Hossein Ehya, Bashir mahdi Ebrahimi
IEEE International Magnetics Conference (Intermag 2014), Dresden, Germany, May 4-8 2014, (Abstract) pp. 1033-1034).
214. Dynamic Eccentricity Fault Diagnosis in a Salient-pole Synchronous Generator under Non-linear Loads.
Jawad Faiz, Hossein Ehya, Bashir mahdi Ebrahimi
IEEE International Magnetics Conference (Intermag 2014), Dresden, Germany, May 4-8 2014, (Abstract) pp. 231-2312.

215. Review of Series Connected Wound Rotor Three Phase Induction Motors
W. S. Abu-Elhaija, **Jawad Faiz**
IEEE International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM-2014), July 2014, Italy, pp. 667-612.
216. Prediction of Magnetic Flux Densities Waveforms in Switched Reluctance Motors
Mojtaba Nabaei and **Jawad Faiz**
10th International Conference on Technical and Physical Problems of Electrical Engineering (ICTPE), 7-8 September 2014, Baku, Azerbaijan, pp. 77-81.
217. Inter-Turn Short Circuit Fault in Electrical Motors
Jawad Faiz and Seyed Amir Hossein Exiry
The 16th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Sept. 14-17, 2014, Graz, Austria. P. 8 (Abstract)
218. Recent Progresses in Bus-ducts Design
J. Faiz, H. Ehya,S. Shojaee. M. Hamidian and A. Ghorbani
The 16th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Sept. 14-17, 2014, Graz, Austria. P. 9 (Abstract)
219. Diagnosis pf Air Gap Asymmetry Fault in ALIMs
Jawad Faiz, A. Tajadiny and B. Fahimi
The 16th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Sept. 14-17, 2014, Graz, Austria. P. 10 (Abstract).
220. Diagnosis of Eccentricity Fault and its Type in Three-phase Squirrel-cage Induction Motors using Harmonic Analysis of Developed Torque
Jawad Faiz and Mahmud Ghasmi-Bijan
The 16th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Sept. 14-17, 2014, Graz, Austria. P. 42 (Abstract).
221. A New Pattern for Detecting On-line Eccentricity Fault in Switched Reluctance Motor
J. Faiz, E. Ehya and B. M> Ebrahimi
The 16th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Sept. 14-17, 2014, Graz, Austria. P. 43 (Abstract).
222. Impact of Rotor Broken Bars Fault on Life Span of a Three-phase Squrrel-cage Induction Motor
Jawad Faiz and A. M. Takbash
The 16th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Sept. 14-17, 2014, Graz, Austria. P. 44 (Abstract)
223. Aspects of Optimal Design in Low-Voltage Bus-ducts under Unbalanced and Harmonic Loads
J. Faiz, H. Ehya,S. Shojaee. M. Hamidian and A. Ghorbani
The 16th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Sept. 14-17, 2014, Graz, Austria. P. 27 (Abstract)
224. Modeling and Fault Diagnosis of Wind Turbine Generators: A Review
Jawad Faiz and Mohammad Hoseintabar
3rd International Conference on Built Environment and Sustainable Development, 24-28 Nov. 2014, Havana, Cuba (in CD).
225. Design Aspects of Linear Permanent Magnet Generators for Converting Sea Waves Energy to Electrical Energy
Jawad Faiz and Mehdi Ebrahim-salari
3rd International Conference on Built Environment and Sustainable Development, 24-28 Nov. 2014, Havana, Cuba (in CD).

2015

226. Modeling and Damping Controller Design for Static VAR Compensator
Jawad Faiz and Ghazanfar Shahgkolian
5th International Scientific Conference on Power Engineering, Energy and Electrical Drives (POWERENG2015), May 11-13, 2015, Riga, Latvia (in CD).
227. Review of Eccentricity Fault Detection Techniques in IMS Focusing on DFIG
Jawad Faiz and S. M. Moosavi
5th International Scientific Conference on Power Engineering, Energy and Electrical Drives (POWERENG2015), May 11-13, 2015, Riga, Latvia (in CD).
228. Planetary Gearbox Torsional Vibration Effects on Wound Rotor Induction Generator Electrical Signature

M. Hoseintabar Marzebali, S. H. Kia, H. Henao, G. Capolino and **J. Faiz**
IEEE International Electric Machines and Drives Conference (IEMDC2015), May 10-13, 2015, Coeur d Alene, ID, USA, pp. 1440-1445.

229. A Novel Robust Design for LPMSM with Minimum Motor Current THD based on Improved Space Vector Modulation Technique
Jawad Faiz, Mehdi Manoochehrai and Ghazanfar Shahgholian
Joint International Conference ACEMP-Optim-Eletromotion , 2-4 September 2015, Side, Turkey, pp. 1-7. (in CD)
230. Short-circuit Fault Diagnosis in Permanent Magnet Synchronous Motors- An Overview
Jawad Faiz and A. A. S. Exiri
Joint International Conference ACEMP-Optim-Eletromotion , 2-4 September 2015, Side, Turkey, pp. 18-27. (in CD).
231. Impact of Rotor Inter-turn Short Circuit Fault upon Performance of Wound Rotor Induction Motor
Jawad Faiz, M. Keravand and M. Ghasemi-Bijan
Joint International Conference ACEMP-Optim-Eletromotion , 2-4 September 2015, Side, Turkey, pp. 681-686. In (CD).
232. Predicting Radial and Tangential No-Load Air-Gap Flux Density in IPMSM Using a Novel Conformal Mapping and Lumped Parameter Model
Hooshang Mirahki, Mehdi Moallem and **Jawad Faiz**
Joint International Conference ACEMP- Optim- Eletromotion , 2-4 September 2015, Side, Turkey, pp. 75-80. In (CD).
233. Impact of Rotor Winding and Stator Stepped End Core on Magnetic Force Distribution on Stator
Alireza Ghaempanah and **Jawad Faiz**
2015 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies, 3-5 November 2015, The Dead Sea, Jordan. (in CD).
234. Simple modeling of rotor skew in induction machines using 2-D FEM packages
Hossein Ehya, Sadegh Shamlou and **Jawad Faiz**
12th International Conference on Applied Electromagnetics - ΠΕC 2015
August 31 – September 02, 2015, Niš, Serbia.

2016

235. Simulation of Permanent Magnet Synchronous Motors Under Short Circuit Fault
Jawad Faiz, A. H. Exiri and H. Nejadi-Koti
18th Mediterranean Electrotechnical Conference (MELECON 2016), 18-20 April 2016, Limassol, Cyprus)in CD).
236. Coordinated Control of Power System Stablizer and Facts Devices for Dynamic Performance Enhancement – State of Art.
Ghazanfar Shahgholian and **Jawad Faiz**
2016 2nd International Conference on Intelligent Energy and Power Systems (IEPS), Kyiv, Ukraine, June 7-11, 2016, pp. 110-115.

23٧. Design of a Radial Flux Permanent Magnet Wind Generator with Low Coercive Force Magnets
Jawad Faiz, ZahraValipour, M. Shokri-Kojouri and M. Azeem Khan.
2016 2nd International Conference on Intelligent Energy and Power Systems (IEPS), Kyiv, Ukraine, June 7-11, 2016, pp. 155-161.

23٨. Effet d'un multiplicateur planetairesur les signaux electriques de la machine induction a rotor bobine dans la production d'energie eolienne
M. Marzebali, S. Kia, H. Henao, G.A. Capolino and **J. Faiz**
Symposium de Genie Electrique (SGE 2016), Grenoble, France, June 7-9, 2016.

23٩. Detection, Location and Estimation of Severity of Interturn Faults in Power Transformers
Jawad Faiz, J. Gharaeei and S. Lotfifard
IEEE 10th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2016), 29 June-1 July 2016, Bydgoszcz, Poland, pp. 39-44 (in CD).

2٤٠. Current-Based Inter-Turn Shrot Circuit Fault Madeling in Permanent Magnet Synchronous Machine using Magnetic Equivalent Circuit Model
Jawad Faiz, A. H. Exiri and. H. Nejad-Koti.
IEEE 10th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2016), 29 June-1 July 2016, Bydgoszcz, Poland, pp. 265-270 (in CD).

2٤١. Torque Ripple Alleviation of Interior Permanent Magnet Brushless DC Motor Drives

Jawad Faiz, Mehdi Heydari and Alireza Nemat Saberi
31st International Power System Conference (PSC 2016), 24-26 Oct. 2016, Tehran, Iran)in CD).

٢٤٢. A New Method for Estimation of Losses in Inverter-fed Induction Machines including Electrical Insulation Losses
Jawad Faiz, and A. Ghasemi
Power Electronics and Motion Control Conference 2016, 25-30 September 2016, Varna, Bulgaria, pp. 561-565 (in CD).

٢٤٣. Performance Verification of Saturated IPM Bearingless Motors Considering Magnetic Pull Variation
Jawad Faiz, Zahra Nasiri-Gheidari snd Azizur Rahman,
Power Electronics and Motion Control Conference 2016, 25-30 September 2016, Varna, Bulgaria, pp. 561-565 (in CD).

2017

٢٤٤. Eccentricity Fault Indices in Large Induction Motors-An Overview
Iman Sadeghi, Hossein Ehya and **Jawad Faiz**
8th Power Electronics, Drive Systems & Technologies Conference (PEDSTC 2017)
14-16 Feb. 2017, Ferdowsi University of Mashhad, Mashhad, Iran,

٢٤٥. A New Control Method for Improving the Performance of Modular Multilevel Converter
Alireza Hadizadeh, Hossein Iman-Eini, Shahrokh Farhangi, Milad Soleimani, and **Jawad Faiz**
8th Power Electronics, Drive Systems & Technologies Conference (PEDSTC 2017)
14-16 Feb. 2017, Ferdowsi University of Mashhad, Mashhad, Iran,

٢٤٦. A Novel Demagnetization Fault Detection of Brushless DC Motors Based on Current Time-Series Features
Jawad Faiz and Ehsan Mazaheri-Tehrani
11th IEEE International Symposium on Diagnosis for Electrical Machines, Power Electronics and Drives (SDEMPED2017).Tinos, Greece, August 29-September 1, 2017 (in CD).

٢٤٧. A Fast, Precise and Low Cost Stator Inter-turn Fault Diagnosis Technique for Wound Rotor Induction Motors Based on Wavelet Transform of Rotor Current
Mehran Keravand, **Jawad Faiz**, Milad Soleimani, Mahmud Ghasemi-Bijan, Mohsen Bandar-Abadi and Sérgio M.Â. Cruz
11th IEEE International Symposium on Diagnosis for Electrical Machines, Power Electronics and Drives (SDEMPED2017).Tinos, Greece, August 29-September 1, 2017 (in CD).

٢٤٨. Simulation and Experimental Analyses of Planetary Gear Tooth Defect Using Electrical and Mechanical Signatures of Wound Rotor Induction Generators
Shahin Hedayati Kia, Mohammad Hoseintabar Marzebali, Humberto Henao, Gérard-André Capolino and **Jawad Faiz**.
11th IEEE International Symposium on Diagnosis for Electrical Machines, Power Electronics and Drives (SDEMPED2017).Tinos, Greece, August 29-September 1, 2017 (in CD).

٢٤٩. Online Condition Monitoring of Large Synchronous Generator under Eccentricity Fault
Hossein Ehya, Iman Sadeghi and **Jawad Faiz**
2017 12th IEEE Conference on Industrial Electronics and Applications, 18-20 June 2017, Siem Reap, Cambodia, pp. 19-24.

٢٥٠. Linear Permanent Magnet Generator Concepts for Direct-drive Wave Energy Converters: A Comprehensive review
Jawad Faiz and Alireza Nematsaberi
2017 12th IEEE Conference on Industrial Electronics and Applications, 18-20 June 2017, Siem Reap, Cambodia, pp. 619-624.

٢٥١. Design and Analysis of a Linear Wound Field Vernier Machine with Partitioned Stator
Jawad Faiz and Alireza Nematsaberi1
21st International Conference on the Computation of Electromagnetic Fields (COMPUMAG2017), June 18-22, 2017 (Digest, in CD).

٢٥٢. Analysis of Surface Mounted Permanent Magnet Motors Using Combined Winding Function and Conformal Mapping Method
Jawad Faiz and Farhad Rezaee-Alam
21st International Conference on the Computation of Electromagnetic Fields (COMPUMAG2017), June 18-22, 2017 (Digest, in CD).

٢٥٣. An Accurate Magnetic Equivalent Circuit Model for Analysis of Surface Mounted Permanent

Magnet Motors
Jawad Faiz and Farhad Rezaee-Alam
21st International Conference on the Computation of Electromagnetic Fields (COMPUMAG2017), June 18-22, 2017 (Digest, in CD).

۲۵۴. Finite Element Analysis of Healthy and Faulty Permanent Magnet Synchronous Motors used in Hybrid Vehicles
Jawad Faiz, H. Nejadi-Koti, Mehran Keravand
International Conference on Optimization of Electrical and Electronic Equipment & International Aegean Conference on Electrical Machines and Power Electronics (OPTIM-ACEMP-2017), May 25-27, 2017, Moiecin, Brasov County, Romania (in CD).

۲۵۵. Impacts of Eccentricity Fault on Permanent Magnet Generators for Distributed Generation
Jawad Faiz, M. R. Hassan Zadeh
International Conference on Optimization of Electrical and Electronic Equipment & International Aegean Conference on Electrical Machines and Power Electronics (OPTIM-ACEMP-2017), May 25-27, 2017, Moiecin, Brasov County, Romania (in CD).

۲۵۶. Online Fault Diagnosis of Large Electrical Machines using Vibration Signal- A Review.
Iman Sadeghi, Hossein Ehya, **Jawad Faiz**, Hossein Ostovar.
International Conference on Optimization of Electrical and Electronic Equipment & International Aegean Conference on Electrical Machines and Power Electronics (OPTIM-ACEMP-2017), May 25-27, 2017, Moiecin, Brasov County, Romania (in CD).

۲۵۷. An Efficient Agorithm for Fault Detection by Diretional Overcurrent Relay based on Current Waveform in Distribution Systems
Jawad Faiz, Ali Mahmoodi
International Conference on Optimization of Electrical and Electronic Equipment & International Aegean Conference on Electrical Machines and Power Electronics (OPTIM-ACEMP-2017), May 25-27, 2017, Moiecin, Brasov County, Romania (in CD).

۲۵۸. Analytic Method for Eccetricity Fault Diagnosis in Salient-pole Synchronous Generators
Iman Sadeghi, Hossein Ehya, **Jawad Faiz**
International Conference on Optimization of Electrical and Electronic Equipment & International Aegean Conference on Electrical Machines and Power Electronics (OPTIM-ACEMP-2017), May 25-27, 2017, Moiecin, Brasov County, Romania (in CD).

۲۵۹. A new control method for improving the performance of modular multilevel converter
Hadizadeh A ر,Iman-Eini, Sh. Farhangi, M. Soleimani, **J. Faiz**
8th Power Electronics, Drive Systems and Technologies Conference, PEDSTC 2017 (2017) pp. 323-328
DOI: 10.1109/PEDSTC.2017.7910346

2018

۲۶۰. Inter-turn Fault Diagnosis in Brushless Direct Current Motors- A Review
Jawad Faiz and Ahmad Jafari
International Conference on Industrial Technology (ICIT 2018), February 20-22, Lyon, France, (in CD).

۲۶۱. On-line Condition Monitoring of Large Synchronous Generator under Short Circuit Fault- A Review
Iman Sadeghi, Hossein Ehya, **Jawad Faiz**. Amir Abbas Shyegani Akmal
International Conference on Industrial Technology (ICIT 2018), February 20-22, Lyon, France, (in CD).

۲۶۲. Permanent Magnet Synchronous Generator Design for Wind Turbines using alternative PM
Jawad Fauz, Tohid Asefi, Mohammad Azeem Khan
APSAEM 2018: The 9th Asia-Pacific Symposium on Applied Electromagnetic and Mechanics, Yogyakarta, Indonesia, 24-27 July 2018 (in CD).

۲۶۳ Fault diagnosis in power transformers using leakage fluxes analysis
Jawad Fauz and Reza Hydarabadi
APSAEM 2018: The 9th Asia-Pacific Symposium on Applied Electromagnetic and MechanicsYogyakarta, Indonesia, 24-27 July 2018 (in CD).

۲۶۴. Design of Dual Rotor Axial Flux Permanent Magnet Generators with Ferrite and Rare-Earth Magnets
Tohid Asefi, **Jawad Faiz** and M. A. Khan
18th International Conference on Power Electronics and Motion Control (IEEE-PEMC 2018), August 26-30, 2018, Budapest, Hungary, pp,531-538 (in USB).

26۵. Design of All-Sinusoidal Single-Phase On-Line UPS with AVR for Improving Sinusoidal Output Voltage
Ghazanfar Shahgholian, Ahmad Omrani, **Jawad Faiz**
18th International Conference on Power Electronics and Motion Control (IEEE-PEMC 2018), August 26-30, 2018, Budapest, Hungary, pp. 363368 (in USB).

26۶. Simple and Fast Model of Demagnetization Faults in Brushless PM Motors
Jawad Faiz and Ehsan Mazaheri-Tehrani
IEEE CPE-POWERENG 2018, Doha-Qatar, April 10-12 (in USB).

2019

26۷. Diagnosis of Dynamic Eccentricity Fault in Inverter-Fed Permanent Magnet Synchronous Motor Based on Zero Sequence Voltage Component (abstract)
J. Faiz, M. S. Bozorgian and E. Mazaheri-Tehrani
11th Japanese-Mediterranean Workshop Applied Eletromagnetics Engineering for Magnetic, Superconducting, Multifunctional and Nanomaterials, (JAPMED11), Batumi-Georgia, 16-19 July 2019, pp. 41-42.

26۸. A Fast and Accurate Model for Prediction of Magnetization Characteristics of Highly Saturated EI-Core Inductors. (Abstrat).
Mohammad Fazlalizadeh, **Jawad Faiz**.
14th International Conference on Applied Electromagnetics (PES2019, Nis, Serbia, August 26-28, 2019, p. 54.

26۹. Surrogate Model Based Optimization of Synchronous Reluctance Motor (Abstrat).
Amirhossein Erfani Nik, **Jawad Faiz**.
14th International Conference on Applied Electromagnetics (PES2019, Nis, Serbia, August 26-28, 2019, p. 55.

2۷۰. Double Stator Switched Reluctance Generator (Abstrat).
Ashkan Karimi Koohpar, **Jawad Faiz**.
14th International Conference on Applied Electromagnetics (PES2019, Nis, Serbia, August 26-28, 2019, p. 56.

2020

271. Uncertainty Quantification of Permanent Magnet Motor Using Response Surface Surrogate Modeling
Vahid Rafiee and **Jawad Faiz**
PEDSTC 2020, Tehran, Iran, (in CD)

272. New Thermal Model for Accurate Prediction of Top Oil Temperature of Distribution Transformer
Vahid Shiravand, **Jawad Faiz**, Mohammad Hamed Samimi Mohammad Djamali
28th Iranian Conference on Electrical Engineering (ICEE 2020), Tabriz, Iran

273. Surrogate-based Multi-Objective Optimization of Interior Permanent Magnet Motor used in Electrical Vehicle with Multiple Driving Cycle
Amirhossein Erfani Nik and **Jawad Faiz**
The 19th International IGTE Symposium Field Calculation in Electrical Engineering

274. FE Simulation of Inter-Turn Fault in SRMs
Jawad Faiz and Shahin Imanzadeh
The 19th International IGTE Symposium on Numerical Field Calculation in Electrical

275. Variable Frequency Transformer for Robust Control of Power Flow between Synchronous Power Networks
Jawad Faiz , Soroush Emami-Bardeshahi and Saeed Lotfifard
2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 04-07, 2020.

27۶. Two-phase active rectifier for two-phase permanent magnet Vernier generator
Mehrage Ghods, Soheil Khosrogorji and **Jawad Faiz**
2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 04-07, 2020

277. Speed and Force Control of a Partitioned Stator Linear Wound Field Vernier Machine using Mathematical Model

Soheil Khosrogorji, Alireza Nemat Saberi and **Jawad Faiz**
2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 04-07, 2020

2021

278. Finite Element Simulation of Healthy and Faulty Brushless Direct Current Drives
Jawad Faiz and Ahmad Jafari
15th International Online Conference on Applied Electromagnetics - ПЕС 2021, August 30 – September 01, 2021, Niš, Serbia
279. Static Eccentricity Fault Detection in Salient and Non-Salient Synchronous Generators Using Harmonic Components
S. M. Toufighian, **J. Faiz**, A. H. Erfani-Nik
12th Power Electronics, Drive Systems, and Technologies Conference, Iran, 2021.

f) International Journal papers

1992

1. A review of the performance prediction and design techniques for switched reluctance motors,
J. Faiz
Journal of Electrical and Electronics Engineering, Australia, IE Aust. & IREE Aust. Vol. 12, No. 3, Sept. 1992, pp. 258-266.
2. Heat distribution and thermal calculations for a switched reluctance motor,
J. Faiz and A. Dadgari
Journal of Electrical and Electronics Engineering, Australia, IE Aust. & IREE Aust. Vol. 12, No. 4, December 1992, pp. 349-361.
3. CAD of single-phase induction motors based on a new geometrical approach
Faiz, J. and Honarparvar, Sh.
Journal of Engineering, Islamic Republic of Iran, Vol. 5, No. 3&4, Nov. 1992, pp. 81-89..

1993

4. Aspects of design optimisation for switched reluctance motors
Faiz, J. and Finch, J.W
IEEE Transactions on Energy Conversion, Vol. 8, No. 4, December 1993, pp. 704-713.

1994

5. Design computations and performance characteristics prediction for multiple-tooth switched reluctance motors
Faiz, J. and Finch, J.W.
International Journal of Computers and Electrical Engineering, Vol. 20, No. 3, May 1994. pp. 243-258.
6. Teaching Aids for Electrical Machines Laboratory
Faiz, J. and Ghasemzadeh, S.
Journal of Computer Applications in Engineering Education, Vol. 1, No. 5, pp. 455-461. (John Wiley & Sons),
7. Simulation of Induction Motor Including Mechnaical Losses and Saturation
Faiz Jawad, Sharifian,M. B., Madadi H. and Shi Liming Journal of Advanced Technology of Electrical Engineering and Energy (in Chinese), No. 1, 1994, pp. 55-61.
8. Core losses estimation in a multiple teeth per stator switched reluctance motor
Jawad Faiz and M. B. B. Sharifian
IEEE Transactions on Magnetics, Vol. 30, No. 2, March 1994. pp. 189-195.
9. Three phase induction motor simulation for teaching purposes
Jawad Faiz and M. B. B. Sharifian
Journal of Computer Applications in Engineering Education Vol. 2, No. 1, 1994, pp.71-79.
10. A design package for single-tooth per stator pole switched reluctance motors*

Faiz, J. and Finch, J.W.
Journal of Engineering, Islamic Republic of Iran, Vol. 7, No. 4, Nov. 1994, pp.197-206.

11. A modification factor for sizing equation of induction motor
Faiz, J. and Sh. Honarparvar
Journal of Engineering, Islamic Republic of Iran, Vol. 7, No. 3, August 1994, pp. 181-184.
12. A software tool for electromagnetic analysis of power system elements using finite difference method
Jawad Faiz and Ali Dadgari
Journal of Computer Applications in Engineering Education, Vol. 2, No. 4, 1994, pp. 245-256.

1995

13. Comparison of two optimisation techniques for design of three phase induction motor using three different objective function
Faiz, J. and Sharifian M.B.B.
European Transactions on Electrical Power Engineering (ETEP), Vol. 5, No. 3, May/June 1995, pp. 199-206.
14. Design of three phase self-excited induction generator
Jawad Faiz, A. Dadgari, S. Horning and A. Keyhani
IEEE Transactions on Energy Conversion, Vol. 10, No. 3, September 1995, pp. 516-523.
15. Optimum design of a three phase squirrel-cage induction motor based on efficiency maximization
Jawad Faiz and M. B. B. Sharifian
International Journal of Computers and Electrical Engineering, Vol. 21, No. 5, September 1995, pp. 367-373.
16. A novel multiple teeth per stator pole switched reluctance motor and their comparison
Jawad Faiz, J. W. Finch, H. B. B. Metwally
Electric Power Systems Research, Vol. EPSO34/3, 1995, pp. 197-203.
17. Dynamic analysis of induction motors with saturable inductances
Jawad Faiz and A. R. Seifi
Electric Power Systems Research, Vol. EPSO34/3, 1995, pp. 205-210.
18. Design and performance Computations for four tooth and higher tooth-per-stator pole switched reluctance motors
Jawad Faiz
Journal of The Institution of Engineers (India), Electrical Engineering Division, Vol. 76, November 1995, pp. 137-144.

1996

19. Simulation and analysis of brushless dc motor drives using hysteresis, ramp comparison and predictive current control techniques
Jawad Faiz, M. R. Azizian and M. Aboulghasmian-Azami
International Journal of Simulation and Practice,Vol, No. 3, January 1996, pp. 347-363.
20. Simulation of a variable reluctance step motor for sinusoidal and step excitations
Jawad Faiz and R. Iranpour
International Journal of Engineering, Islamic Republic of Iran, Vol. 9, No. 2, May 1996, pp. 9-20.
21. Analysis of shaded pole induction motors considering asymmetrical flux distribution and saturation effects
Jawad Faiz, M.R. Feyzi and A. Abbasi
International Journal of Engineering, Islamic Republic of Iran, Vol. 9, No. 4, November 1996, pp. 189-200.

1997

22. Transient Behaviour of Optimum Designed Induction Motors
Jawad Faiz and M. B. B. Sharifian

European Transactions on Electrical Power Engineering (ETEP), Vol. 7, No. 6, Nov./Dec. 1997, pp. 415-420.

23. Lumped complete equivalent circuit of a coreless high frequency transformer
Jawad Faiz, B. abed-Ashtiani and M. R. Byat
IEEE Transaction on Magnetics, Vol. 33, No. 1, January 1997, pp. 703-707.
24. Aspect of design optimization for multiple teeth per stator pole switched reluctance motors
Jawad Faiz and J. W. Finch
Electric Power Systems Research, Vol. 42, No. 1, July 1997, pp. 77-86.
25. Trend of optimization in optimum design of a three phase squirrel-cage induction motor using three different objective functions
Jawad Faiz and M. B. B. Sharifian
Journal of The Institution of Engineers (India), Electrical Engineering Division, Vol. 77, February 1997, pp. 194-201.
26. Closed-loop control stability for permanent magnet synchronous motor
J. Faiz, M. A. Azami, A. Keyhani and A. Proca
International Journal of Electrical Power and Energy Systems, Vol. 19, No. 5, 1997, pp, 331-337.

1998

27. Thermal Model for a Switched Reluctance Motor of TEFC During Steady-State and Transient Operation
Jawad Faiz, R. Iranpour and P. Pillay
Journal of Electric Machines and Power Systems, Vol. 26, No. 1, January 1998, pp.77-92.
28. A fast boundary element method to electric field computation within the tank of power transformers
Faiz, J. and M. Ojaghi
The International Journal for Computation and Mathematics in Electrical and Electronic Engineering (COMPEL), Vol. 17, No. 1/2/3, 1998, pp. 69-77.
29. Modelling of multiple tooth per stator pole switched reluctance motors and their torque ripples control
Jawad Faiz, Y. Ashkvari and E. Hassan-zadeh
Journal of The Institution of Engineers (India), Electrical Engineering Division, Vol. 79, May 1998, pp. 50-56.
30. Optimization of an electronically controlled capacitor for a single-phase induction motor
Jawad Faiz, A. Servatian and P. Pillay
Journal of Electric Machines and Power Systems, Vol. 26, No. 10, December 1998, pp. 1067-1 1079.
31. Automatic Finite-Element Mesh Generation Using Auto-CAD
Faiz, J. and E. Shafagh
IEEE Transactions on Education, Vol. 41, No. 4, Nov. 1998, pp. 325-330.

1999

32. PSPICE simulation of single-phase induction motors
Faiz, J. M .Ojaghi and A. Keyhani
IEEE Transactions on Energy Conversion, Vol. 14,. No. 1, March 1999, pp. 86-92.
33. Performance analysis of fast reclosing transient in induction motors
Faiz, J. M. Ghaneei and A. Keyhani
IEEE Transactions on Energy Conversion, Vol. 14,. No. 1, March 1999, pp. 101-107.
34. A Review of the Control Techniques for Brushless Direct Current Motors
Jawad Faizand, M. Abolghasemian-Azami
International Journal of Engineering, Islamic Republic of Iran, Vol. 12, No. 1, February 1999, pp. 49-67.
35. Direct Torque Control of Induction Motors for Electric Propulsion Systems
Faiz, J., Hossieni, S. H., Ghaneei, M., Keyhani A. and Proca, A.
Electric Power Systems Research, Vol. 51, No. 2, August 5 1999, pp. 95-102.
36. Influence of core losses on analysis of self-excited induction generator
Faiz, J.
Journal of the Institution of Engineers (India), Electrical Engineering Division, Vol. 80, Nov. 1

1999, pp. 115-117.

37. Influence of operation conditions upon the dynamic steady-state performance of switched reluctance motor
    Faiz, J. and Shafagh, E.
    International Journal of Engineering, Islamic Republic of Iran, Vol. 12, No. 4, Nov. 1999, pp. 219-232.
38. Two-dimensional magnetic field analysis of internal-rotor permanent-magnet motors
    Jawad Faiz and H. Jafari
    IEEE Transaction on Magnetics, Vol. 35, No. 5, September 1999, pp. 4232-4237.

2000

39. Magnetic permeance of doubly-salient airgap geometry with finite slot depth and tapered teeth
    Faiz, J. and J. W. Finch
    The International Journal for Computation and Mathematics in Electrical and Electronic Engineering (COMPEL), Vol. 19, No. 1, 2000, pp. 70-85.
40. Effect of slot depth on the permeance of aligned teeth in a doubly-salient rectilinear toothed structure
    Faiz, J. and J. W. Finch
    The International Journal for Computation and Mathematics in Electrical and Electronic Engineering (COMPEL), Vol. 19, No. 1, 2000, pp. 95-105. .
41. Novel techniques for treating singularity problems in the boundary element method applied to electric field evaluation within the tank of a power transformer
    Faiz, J. and M. Ojaghi
    IEEE Trans.on Power Delivery, Vol. 15, No. 2, April 2000, pp. 592-598.
42. A Simple speed control technique and pulsating torque elimination method in a brushless dc motor
    Jawad Faiz, M. A. Azami and M. Moallem
    International Journal of Engineering, Vol. 13, No. 2, May 2000, pp.19-26.
43. Effects of airgap dimensions and magnetic flux density on performance of variable reluctance step motor
    Faiz, J. and Abassi, K. B. A.
    Journal of The Institution of Engineers (India), Vol. 81, September 2000, pp. 54-61.
44. Investigation of a new method of controlling a brushless dc motors including the inverter non-linearities,
    Faiz, J., Aboulghasemian-Azami, M. and Moallem, M.,
    Journal of Electrical and Electronics Engineering, Australia, IE Aust. & IREE Aust. Vol. 20, No. 2, pp. 111-118.
45. Performance comparison of optimally designed induction motors with aluminum and copper squirrel-cages
    Faiz, J., Sharifian, M. B. B., Keyhani, A. and Proca, A.
    Journal of Electric Machines and Power Systems, Vol. 28, No. 12, Dec. 2000, pp. 1195-1207.
46. Optimum design for electric vehicle induction motor
    Faiz, J., Ghaneei, M., Keyhani, A. and Proca, A.
    Journal of Electric Machines and Power Systems, Vol. 28, No. 12, Dec. 2000, pp. 1177-1195.
47. Accurate modeling of single-sided linear induction motor considers end effect and equivalent thickness
    Faiz, J. and Jafari, H.
    IEEE Transactions on Magnetics, Vol. 36, No. 5, September 2000, pp. 3785-3790.

2001

48. Optimal design of three phase induction motors and their comparison with typical industrial motor
    Faiz J. and Sharifian
    International Journal of Computers and Electrical Engineering, Vol. 27, No. 2, March 2001, pp. 133-144.

49. Design of current and speed controllers for slip energy recovery induction motor drive using root locus techniques
Faiz, J., Barati, H. and Akpinar, E.
European Transactions on Electrical Power Engineering (ETEP), Vol. 11, No. 1, Jan./Feb. 2001, pp. 39-48.
50. Harmonic analysis and performance improvement of slip energy recovery induction drives
Faiz, J., Barati, H. and Akpinar, E
IEEE Transations on Power Electronics, Vol. 16, No. 3, May 2001, pp 410-417.
51. Different techniques for real time estimation of an induction motor rotor resistance in sensorless direct torque control for electric vehicle.
Faiz, J., Sharifian, M. B. B.
IEEE Trans. On Energy Conversion, Vol. 16, No. 1, March 2001, pp 104-109.
52. Hysteresis loop modelling techniques and core loss estimation of magnetic cores
Faiz, J. and M. B. B. Sharifian
The International Journal for Computation and Mathematics in Electrical and Electronic Engineering (COMPEL), Vol. 20, No. 4, 2001, pp. 988-1001

53. Comparison of different switching pattern in direct torque control technique
Jawad Faiz and M. B. B. Sharifian
Electric Power Systems Research, Vol. 60, No. 2, December 2001, pp. 63-75.

2002

54. Instructive review of computation of electric field using different numerical techniques
Faiz, J. and Ojaghi, M.
The International Journal of Engineering Education, Vol. 18, No. 3, 2002, pp. 344-356.
55. Pspice-based dynamic analysis of a multiple-teeth per stator pole switched reluctance motor
J. Faiz, J. Raddadi and J.W. Finch
IEEE Trans. on Magnetics, Vol. 38, No. 4, July 2002, pp. 1780-1788.
56. Torque ripple minimization in switched reluctance motor by optimal commutation strategy using a novel reference torque
Faiz, J. and Gh. Soltani-Khosroshahi
Journal of Electric Power Components and Systems, Vol. 30, No. 7, July 2002, pp.769-782.
57. Lumped equivalent circuit of three-phase squirrel-cage induction motors using two-dimensional finite-elements techniques
J. Faiz, M.B. Sharifian, M.R. Feyzi and K. Shaarbaf
IEEE Transactions on Energy Conversion, Vol. , No. 3, September 2002, pp. 363-367.
58. Optimal configurations for taps of windings and power electronics switches in electronic tap-changers of power transformers
J. Faiz, A. Siahkolah
Proc. IEE, Pt. C., Vol. 149, No.5, September 2002, pp. 517-524.
59. Extension of winding function theory for nonuniform airgap of electric machinery
J. Faiz and I. Tabatabaei
IEEE Transactions on Magnetics, Vol. 38, No. 6, November 2002, pp. 3654-3657.

2003

60. Pspice simulation of a capacitor-start and triac-start single-phase induction motor during stedy-state and transient operations and its experimental verification
J. Faiz, A. Jafarian and M. Neekzad
International Journal of Energy Conversion and Management, Jan./Feb. 2003.
44, pp. 479-495
61. New solid-state on-load tap-changers topology for distribution transformers
J. Faiz, and B. Siahkolah
IEEE Transactions on Power Delivery, Vol. 18, No. 1, January 2003, pp. 136-141.
62. Sensorless direct torque control of induction motor used in electric vehicles
J. Faiz, M.B. Sharifian, A. Keyhani and A. B. Proca
IEEE Trans. on Energy Conversion, Vol. 18, No. 1, March 2003, pp. 1-10.
63. A novel technique for estimation and control of stator flux of a salient-pole PMSM in DTC

method based on MTPF
J. Faiz and S.H. Mohseni-zonoozi
IEEE Transactions on Industrial Electronics, Vol. 50, No. 2, April 2003, pp. 262-271.

64. A fast method for calculation of transformers leakage reactance using energy method
A. Naderian Jahromi, **Jawad Faiz** and Hossien Mohseni
International Journal of Engineering, Islamic Republic of Iran, Vol. 16, No. 1, April 2003, pp. 41-48.
65. An evaluation of inductances of a squirrel-cage induction motor under mixed eccentric conditions
Jawad Faiz, I. Tabatabaei Ardekani and Hamid.A. Toliyat
IEEE Transactions on Energy Conversion, Vol. 18, No. 2, June 2003, pp. 252-258.
66. Design of a high power brushless linear variable transformer
A. Rezaei, **J. Faiz**, and H. Mohseni
IEEE Transactions on Power Delivery, Vol. 18, No. 3, July 2003, pp. 809-814.
67. A new power electronic converter for switched reluctance motors
J. Faiz, M.R. Salehi and S.H. Hosseini
European Transactions on Elecrtical Power, Vol. 13, No. 5, September/October 2003, pp. 301-306
68. Transient analysis of switched reluctance motors
J. Faiz, R. Iranpour, A. Keyhani and H. Gunawan
Iranian Journal of Sciences and Technology, Transaction B: Engineering, Vol. 27, No. B4, 2003, pp. 751-762.

2004

69. Modeling and simulation of a salient-pole synchronous generator with dynamic eccentricity using modified winding function (Top Cited Dec. 2011, No. 3).
I. Tabatabaei-Ardekani, **J. Faiz**, H. Lesani and M.T. Nabavi-Razavi
IEEE Trans. on Magnetics, Vol. 40, No. 3, May 2004, pp. 1550-1555.
70. Derating of distribution transformers for non-sinusoidal load currents using FEM
J. Faiz, M.B.B. Sharifian, S.A. Fakheri and E. Sabet-Marzooghi
Iranian Journal of Sciences and Technology, Vol. 28, No. B3, June 2004, pp. 315-322.
71. Effect of solid-state on-load distribution tap-changer on power quality enhancement
J. Faiz and B. Siahkolah
International Journal of Engineering, I.R.Iran, Vol. 17, July 2004, pp. 143-156.
72. Design and test of an integrated electronically controlled capacitor for integral and fractional-horse power single-phase induction motor
Jawad Faiz, F. Kasebi and P. Pillay
International Journal of Energy Conversion and Management, Nov. 2004 Vol. 45, pp. 2989-3001.
73. A Precise electromagnetic modeling and performance analysis of a three-phase squirrel-cage induction motor under mixed eccentricity condition
Jawad Faiz, Iman Tabatabaei and E. Sharifi-Ghazvini
International Journal of Electromagnetics, Vol. 24, No. 6, August-September 2004,pp. 471-489.
74. Influence of unbalanced voltage on the steady-state performance of a three-phase squirrel-cage induction motor
J. Faiz, H. Ebrahimpour and P. Pillay
IEEE Trans. on Energy Conversion, Vol. 19, No. 4, December 2004, pp. 657-662.
75. Adaptive position control of PMSM drive using neural networks
J. Faiz, A.R. Ghafari and P. Pillay
Journal of Iranian Association of Electrical and Electronics Engineers, Vol. 1, No. 2, fall 2004, pp. 21-26.

2005

76. Direct torque control application on permanent-magnet synchronous motors- A review
Jawad Faiz and H. Mooseni-Zoonozi
Journal of Electromotion, Mdiamira Science Publisher, Romania,Vol. 12, May 2005, pp. 44-51.
77. Development of analytical models of SRM in two-phase excitation mode-Extended Miller Model

M. Farshad, **J. Faiz** and C. Lucas
IEEE Transactions on Magnetics, Vol. 41, No. 6, June 2005, pp. 2145-2155.

78. Design of switched reluctance machine for starter/generator of hybrid electric vehicle
Jawad Faiz and K. Moayed-Zadeh
Journal of Electric Power Systems Research, Vol. 75, Issues 2-3, August 2005, pp. 153-160.
79. Sag mitigation by an electronic tap-changer: specifications and comparisons with other custom power tools
Jawad Faiz and B. Siahkolah
IEE, Pt. C, September 2005, Vol. 152, No. 5, pp. 697-704.
80. Coupled FE/Boundary element analysis of reciprocating self-excited induction generator in harmonic domain
J. Faiz, B. Rezaeealam and Yamada
IEEE Transactions on Magnetics, Vol. 41, No. 11, November 2005, pp. 4250-4256.

2006

81. Influence of unbalanced voltage supply on efficiency of a three-phase squirrel-cage induction motor and economic analysis
Jawad Faiz, H. Ebrahimpour and P. Pillay
International Journal of Energy Conversion and Management, Vol. 47, No. 3, Feburary 2006, pp 289-302
82. Adaptive performance improvement of SRM with two-phase excitation
J. Faiz, B. Rezaei-Alam and P. Pillay
European Transactions on Electrical Power (ETEP), Vol. 16, No. 1, January/Feb. 2006, pp. 1-13.
83. Optimal design of induction motor for electric vehicle
Jawad Faiz and M.B.B. Sharifian
European Transactions on Electrical Power (ETEP), Vol. 16, No. 1, January/Feb. 2006, pp. 15-33.
84. Derating of a distribution transformer for non-linear loads
M.B.B. Sharifian and **Jawad Faiz**
European Transactions on Electrical Power (ETEP), Vol. 16, No. 2, March/April 2006, pp. 189-203.
85. Differences Between Conventional and Electronic Tap-Changers and Modifications of Controller
Faiz, J. and Siahkolah, B.
IEEE Transactions on Power Delivery, Vol. 21, No. 3, July 2006, pp. 1342 – 1349.
86. Finite Element Analysis of a switched reluctance motor under static eccentricity fault
Jawad Faiz and Siavash Pakdelian
IEEE Transactions on Magnetics, Vol. 42, No. 8, August 2006, pp. 2006-2008.
87. Reciprocating Flux-Concentrated Induction Generator for Free-Piston Generator
J. Faiz, B. Rezaeealam andYamada
IEEE Transactions on Magnetics, Vol. 42, No. 9, September 2006, pp. 2172-2178.
88. Different Faults and Their Diagnosis Techniques in Three-Phase Squirrel-Cage Induction Motors—A Review
Jawad Faiz, B. M. Ebrahimi and M. B. B. Sharifian
International Journal of Electromagnetics, Vol. 26, No. 7, October 2006, pp..
89. Mixed fault diagnosis in three-phase squirrel-cage induction motor using analysis of air-gap magnetic field
J. Faiz and B.M. Ebrahimi
Progress In Electromagnetics Research, PIER 64, 239-255. 2006
90. A Novel Wavelet-Based Algorithm for Discrimination of Internal Faults From Magnetizing Inrush Currents in Power Transformers
Faiz, J. and Lotfi-Fard, S.
IEEE Transactions on Power Delivery , Vol. 21, No. 4, pp. 1989- 1996.
91. Uninterruptible power supply systems - A review
J. Faiz and G. Shahgholian,
Journal of Electromotion, Romania, No. 4, Vol. 13, October-December 2006, pp. 276-253.

92. Lumped thermal model for switched reluctance motor applied to mechanical design optimization
H. Rouhani, **J. Faiz** and C. Lucas
International Journal of Mathematical and Computer Modeling, Vol. 45, March 2007, pp. 625-638.
93. Time Stepping Finite Element Analysis of Rotor Broken Bars Fault in a Three-Phase Squirrel-Cage Induction Motor
J. Faiz, B. M. Ebrahimi and M. B. B. Sharifian
Progress In Electromagnetics Research, PIER 68, 53-70, 2007.
94. Influence of Magnetic Saturation upon Performance of Induction Motor using Time Stepping Finite Element Method
Jawad Faiz and B.M. Ebrahimi
International Journal of Electric Power Components and Systems, Vol. 35, No. 5, May 2007, pp. 505-524.
95. New Controller for an Electronic Tap-changer Part I: Design Procedure and Simulation Results
Jawad Faiz and B. Siahkolah
IEEE Transactions on Power Delivery, Vol. 22, No. 1, January 2007, pp. 223-229.
96. New Controller for an Electronic Tap-changer Part II: Measurement Algorithm and Test Results
Jawad Faiz and B. Siahkolah
IEEE Transactions on Power Delivery, Vol. 22, No. 1, January 2007, pp. 230-237.
98. Improved over-current protection using symmetrical components
S. Lotfifard, **J. Faiz** and R. Iravani
IEEE Transactions on Power Delivery, Vol. 22, No. 2, April 2007, pp. 843-850.
99. Finite element transient analysis of an on-load three-phase squirrel-cage induction motor with static eccentricity
Jawad Faiz, B. M. Ebrahimi and M. B. B. Sharifian
International Journal of Electromagnetics, Vol. 27, No. 4, May 2007, pp. 207-227.
100. Wavelet based Mann and Morrison algorithm for improvement of three-phase unbalanced voltage dips characterisation
Jawad Faiz, S. Lotifard and M.H.J. Bollen
IET Proc. Generation, Transmission and Distribution, Pt. C, July 2007, Vol. 1, No. 1, pp. 640-646.
101. Prony-Based Optimal Bayes Fault Classification of Over-current Protection
Jawad Faiz, Saeed Lotfifard and Saied Haidarian Shahri
IEEE Transactions on Power Delivery, Vol. 22, No. 3, July 2007, pp. 1326-1334.
102. Precise derating of three-phase induction motors with unbalanced voltages
J. Faiz and H. Ebrahimpour
International Journal of Energy Conversion and Management, Vol. 48, No. 9, September 2007, pp. 2579-2586.
103. Steady-state Time Stepping Finite Element Analysis of Rotor Broken Bars Fault in Three-phase squirrel-cage Induction Motor
J. Faiz and B. Mahdi,
Journal of the Japan Society of Applied Electromagnetics and Mechanics,
Vol.15, Supplement (2007), pp.S33-S36.
104. Adaptive fuzzy system for discrimination of fault from non-fault switching in over-current protection
Jawad Faiz and Saeed Lotfi-Fard
International Journal of Electric Power Components and Systems, Vol. 35, No. 12, December 2007, pp. 1367-1384.
105. Deformable Field Theory of Magnetoelastic Continua and Interactions
P. Rafinejad and **J. Faiz**
Scientica Iranica, Vol. 14, No. 6, Dec./Vol. 2007. pp. 519-533.
106. Signature Analysis of Electrical and Mechanical Signals for Diagnosis of Broken Rotor Bars in an Induction Motor
Jawad Faiz, B.M. Ebrahimi and H. A. Toliyat
International Journal of Electromagnetics, Vol. 27, No. 8, 2007, pp. 507-526.

2008

107. Finite Element Transient Analysis of Induction Motors under Mixed Eccentricity Fault
Jawad Faiz, B.M. Ebrahimi, B. Akin, and H. A. Toliyat
IEEE Transactions on Magnetics, Vol. 44, No. 1, Jan. 2008, pp. 66-74.
108. Stability analysis and simulation of a single-phase UPS inverter with two-stage cascade output filter
Jawad Faiz, Ghazanfar Shahgholian and Mehdi Ehsan
European Transactions on Electrical Power (ETEP), January 2008, 18, No. 1, pp. 29-49.
109. Three- and Two-Dimensional Finite Element Computation of Inrush Current and Short-Circuit Electromagnetic Forces on Windings of a Three-phase Core-Type Power Transformer
Jawad Faiz, B.M. Ebrahimi, and Tahereh Noori
IEEE Transactions on Magnetics, Vol. 44, No. 5, May 2008, pp. 590-597.
110. Determination of number of broken rotor bars and static eccentricity degree in induction motor under mixed-fault
Jawad Faiz, and B.M. Ebrahimi
Journal of Electromagnetics, Vol. 28, No. 6, August 2008 , pp. 433 – 449.
111. Diagnosis of Static Eccentricity in Switched Reluctance Motors Based on Mutually Induced Voltages
Jawad Faiz and Siavash Pakdelian
IEEE Transactions on Magnetics, Vol. 44, No. 8, August 2008, pp. 2029-2034.
112. Two-Dimensional Finite Element Thermal Modeling of an Oil-Immersed Transformer
Jawad Faiz, M.B.B. Sharifian and A. Fakhri
European Transactions on Electrical Power (ETEP), September 2008, 18, No. 1, pp. 577-594.
113. Static Eccentricity fault diagnosis in an accelerating no-load three-phase saturated squirrel-cage induction motor
J. Faiz and B. M. Ebrahimi
Progress In Electromagnetics Research (PIER B), Vol. 10, 35–54, 2008.
114. Implementation of a low power electronic tap-changer in transformers
J. Faiz and B. Siahkolah
IET Journal of Electric Power Applications
Vol. 2 No. 6, 2008, pp. 362-373.
115. Static eccentricity fault diagnosis in permanent magnet synchronous motor using time stepping finite element method
B. M. Ebrahimi, **Jawad Faiz**, M. Javan-Roshtkhari and A. Zargham Nejhad
IEEE Transactions on Magnetics, Vol. 44, No. 11, November 2008, pp. 4297-4300.
116. Extension of multiple coupled circuit modeling of induction machines to include variable degrees of saturation effects
Mansour Ojaghi and **Jawad Faiz**
IEEE Transactions on Magnetics, Vol. 44, No. 11, November 2008, pp.4053-4056.
117. A new pattern for detecting broken rotor bars in induction motors during start-up
Jawad Faiz and Bashir-mahdi Ebrahimi
IEEE Transactions on Magnetics, Vol. 44, No. 12, December 2008, pp.4673-83.
118. Computation of a single-phase shell-type transformer windings forces caused by inrush and short-circuit currents
M.B.B. Sharifian, R. Esmaeilzadeh, M. Farrokjifar, **J. Faiz**, M. Ghadimi and G. Ahrabian
Journal of Computer Science, Vol. 4, No. 1, 2008, pp. 51-58.

2009

119. Locating Rotor Broken Bars in Induction Motors using Finite element Method
Jawad Faiz and B. M. Ebrahimi
International Journal of Energy Conversion and Management, Vol. 50, January 2009, pp. 125=131.
120. Mixed Eccentricity Fault Diagnosis in Salient-pole Synchronous Generator using Modified Winding Function Method
J. Faiz, B. M. Ebrahimi, M. Valavi and H. A. Toliyat
Progress In Electromagnetics Research B, Vol. 11, 155–172, 2009.
121. Different Indexes for Eccentricity Faults Diagnosis in Three-phase Squirrel-cage Induction Motors: A Review

Jawad Faiz and M. Ojaghi
Mechatronics, Elsevier, Vol. 19, No. 1, 2009, 2-13.

122. Comprehensive eccentricity fault diagnosis in induction motors
Jawad Faiz, B.M. Ebrahimi, B. Akin and H.A. Toliyat
IEEE Transactions on Magnetics, Vol. 45, No.3, March 2009, pp. 1764-1767.
123. Design Optimization of Switched Reluctance Machines for Starter/Generator of Hybrid Electric Vehicle by Genetic Algorithm,
Jawad Faiz and K. Moayed-zadeh
European Transactions on Electrical Power, Vol. 19, No. 2, March 2009, pp. 302-312.
124. Criterion function for broken bar fault diagnosis in induction motor under load variation using wavelet transform
Jawad Faiz, B, M, Ebrahimi, B. Akin and B. Asaie
International Journal of Electromagnetics, Vol. 29, No.3, 2009, pp. 220-234.
125. Reply to Discussion on "Adaptive Fuzzy System for Discrimination of Fault from Non-fault Switching in Over-current Protection"
Jawad Faiz and S. Lotfi-Fard
International Journal of Power Components and Systems, Vol. 37, No. 6, pp. 695-696.
126. Magnetizing inrush current identification using wavelet based Gaussian mixture models
S. Jazebi, B. Vahidi, S.H. Hossinian and **J. Faiz**
International Journal of Simulation Modeling Practice and Theory, Vol. 17, 2009, pp. 991-1010.
127. Temperature Rise Analysis of Switched Reluctance Motors due to Electromagnetic Losses
Jawad Faiz, B. Ganji, C. E. Carstensen, Knut A. Kasper and R. W. De Doncker
IEEE Transactions on Magnetics, Vol. 45, No.7, July 2009, pp. 2927-2934.
128. Effect of Magnetic Saturation on Static and Mixed Eccentricity Faults Diagnosis in Induction Motor
Jawad Faiz, Bashir Mahdi Ebrahimi and Hamid A. Toliyat
IEEE Transactions on Magnetics, Vol. 45, No. 8, August 2009, pp 3137-3144.
129. Loss Prediction in Switched Reluctance Motors Using Finite Element Method
J. Faiz, B. Ganji C. E. Carstensen, and R. W. De Doncker
European Transactions on Electrical Power, Vol. 19, July 2009, pp. 731-748.
130. Unified Winding Function Approach for Dynamic Simulation of different kinds of Eccentricity Faults in Cage Induction Machines
Jawad Faiz and M. Ojaghi
IET Electric Power Applications, 2009, Vol. 3, No. 5, pp. 461-470.
131. Inductance Estimation of Salient-Pole Synchronous Generator under Static and Dynamic Eccentricity Fault using Modified Winding Function Method
J. Faiz, M. Valavi and B. M. Ebrahimi
Journal of the Japan Society of Applied Electromagnetics and Machines (JSAEM), Vol. 17, Supplement September 2009, pp. S.45-S48.
132. Design Optimization of Permanent Magnet Wind Generator-Maximizing Power to Weight Ratio and Minimizing Machine Active Materials and Magnet Volumes
J. Faiz, M. Rajabi-Sebdani, B. M. Ebrahimi and M.A. Khan
Journal of the Japan Society of Applied Electromagnetics and Machines (JSAEM) , Vol. 17, Supplement September 2009, pp. S. 141-144.
133. Performance of Distribution Transformers under Non-Linear Loads
J. Faiz, M. Ghofrani and B. M. Ebrahimi
Journal of the Japan Society of Applied Electromagnetics and Machines (JSAEM, Vol. 17, Supplement September 2009, pp. S. 105-108.
134. Dynamic Analysis and Control Design of a Single-Phase UPS Inverter with Novel Topology and Experimental Verification
Ghazanfar Shahgholian, **Jawad Faiz**, Mohsen Arezoomand
International Review of Electrical Engineering, July-August 2009, pp. 513-523.
135. An analytical approach to synthesis and modeling of torque control strategy for two-mass resonant systems.
Ghazanfar Shahgholian, and **Jawad Faiz**
International Review of Automatic Control (IREACO) Theory and Applications , July 2009, pp. 459-468.
136. Static, Dynamic and Mixed Eccentricity Fault Diagnosis in Permanent Magnet Synchronous Motors
Jawad Faiz, Bashir Mahdi Ebrahimi and Mehrsan Javan Roshtkhari

IEEE Transactions on Industrial Electronics, Vol. 56, No. 11, Nov. 2009, pp. 4727-4739.

137. Instantaneous Power Harmonics as Indices for Mixed eccentricity Fault in Mains-Fed and Open/Closed-Loop Drive-Connected Squirrel-cage Induction Motors
Jawad Faiz and Mansour Ojaghi
IEEE Transactions on Industrial Electronics, Vol. 56, No. 11, Nov. 2009, pp. 4718-4726.
138. Modeling and Simulation of a Three-phase Inverter with Rectifier-type Nonlinear Loads
Jawad Faiz and Ghazanfar Shahgholian
Armenian Journal of Physics, 2009, Vol. 2, No. 4, pp. 307-316.
139. Analysis and Simulation of a Three-phase UPS Inverter with Output Multiple-filter
Jawad Faiz, Ghazanfar Shahgholian and Mehdi Mahdavian
Armenian Journal of Physics, 2009, Vol. 2, No. 4, pp. 317-325.
140. A Comparative Analysis and Simulation of Two Current Control Techniques for Single-Phase UPS Inverter
Jawad Faiz and Ghazanfar Shahgholian
International Journal of Electromotion, Vol. 16, No. 4, Oct.-Dec. 2009, pp. 197-205.

2010

141. Detection of Symmetrical Faults by Distance Relays during Power Swings
S. Lotifard, **Jawad Faiz**, and Kezenovich
IEEE Trans. on Power Delivery, Vol. 25, No. 1, January 2010, pp. 81-87.
(Top Accessed Article January 2010)
142. Reduction of Cogging Force in Linear Permanent Magnet Generators
Jawad Faiz, Mahdi Ebrahimi-salari and G. Shahgholian
IEEE Transactions on Magnetics, Vol. 46, No. 1, January 2010, pp.135-140.
(Top Accessed Article January 2010)
143. Diagnosis and Performance Analysis of Three-phase Permanent Magnet Synchronous Motors with Static, Dynamic and Mixed Eccentricity
B.M. Ebrahimi and **J. Faiz**
IET Electric Power Applications, 2010, Vol. 4, No. 1, pp. 1-16.
(Top Accessed Article January 2010, Top Accessed Article March 2011, Top Accessed Article Dec. 2011, Top Accessed Article, June 2012 and April 2105)
144. Dynamic Analysis of Mixed Eccentricity Signature at Various Operating Points and Scrutiny Related Indices for Induction Motors.
J. Faiz, B. M. Ebrahimi, B. Akin and H. A. Toliyat
IET Electric Power Applications, 2010, Vol. 4, No. 1, pp. 53-66.
145. Inrush current modeling in a single-phase transformer
Jawad Faiz and Saeed Saffari
IEEE Transactions on Magnetics, Vol. 46, No. 2, February 2010, pp. 578-581.
146. Mixed-derating of distribution transformers under unbalanced supply voltage and non-linear load conditions using TSFEM
Jawad Faiz, B.M. Ebrahimi and M. Ghofrani
IEEE Transactions on Power Delivery, Vol. 25, No. 2, April 2010, pp. 780-789.
147. Mixed-Fault Diagnosis in Induction motors Considering Varying Load and Broken Bars Location
Jawad Faiz, Bashir-Mahdi Ebrahimi, H. A. Toliyat and W. S. Abu-Elhaija,
International Journal of Energy Conversion and Management, Vol. 51, No. 7, July 2010, pp. 1432-1441.
148. Integration of nonlinear H∞ and SMC technique for motion control of a permanent magnet synchronous motor (Popular view-May, June, July 2010)
A.R. Ghafari Kashani, **Jawad Faiz** and M.J. Yazdanpanah
IET Electric Power Applications, Vol. 4, No. 4, April 2010, pp. 267-280.
149. Time-stepping finite element analysis of dynamic eccentricity fault in a three-phase salient pole synchronous generator
J. Faiz, M. Babaei, J. Nazarzadeh, B.M. Ebrahimi and S. Amini
Progress In Electromagnetics Research B, Vol. 20, 263-284, 2010.
150. A New Technique for Modeling Hysteresis Phenomenon in Soft Magnetic Materials,
Jawad Faiz and S. Saffari
International Journal of Electromagnetics, Vol. 30, No. 4, May 2010, pp. 376-401.

151. Pattern Identification for Eccentricity Fault Diagnosis in Permanent Magnet Synchronous Motors using Stator Current Monitoring'
B. M. Ebrahimi, **J. Faiz,** and B. N. Araabi
IET Electric Power Applications, July 2010, Vol. 4, No. 6, pp. 418-430.
(Top Accessed Article -August 2010- September 2012 and April 2015)
152. Design and Experimental Analysis of a High Speed Two-phase Induction Motor Drive for weaver Machines Applications
G. Shahgholian, **J. Faiz**, N. Sadri, P. Shafaghi, M. Mahdavian
International Review of Electrical Engineering-IREE, Vol. 5, No. 2, Part a: March-April 2010, pp. 454-461.
153. A Novel Algorithm for Determination of Reactive Currents in STATCOM for Voltage Flicker Mitigation
J. Faiz and A. Zafari
Journal of Systems, Vol. 6, No. 2, June 2010, pp…
154. Modeling and Designing Controller of Two Different Mechanical Coupled Motors for Enhancement of Underwater Vehicles Performance
M. Jafarboland and **J. Faiz**
IET Electric Power Applications, August 2010, Vol. 4, No. 7, pp. 525-538.
155. Core Loss Model Based on Finite Element Method for Switched Reluctance Motors
B. Ganji, **J. Faiz**, K. Kasper, C. E. Carstensen, and R. W. De Doncker
IET Electric Power Applications, August 2010, Vol. 4, No. 7, pp. 569-577.
156. Analytical Prediction of Instantaneous Torque and Speed for Induction Motors with Mixed Eccentricity Fault using Magnetic Field Equations
W.S. Abu-Elhaija, **Jawad Faiz** and Bashir-Mahdi Ebrahimi
International Journal of Electromagnetics, Vol. 30, No. 6, 2010, pp. 525-540.
157. Experimental Investigation on the Effects of Direct Torque Control Strategy in Eccentricity Related Frequency Components of Line Current of Induction Motors
Jawad Faiz and Mansour Ojaghi
Electric Power Components and Systems, Vol. 38, No. 11, 2010, pp. 1285-1298.
158. Feature Extraction for Short Circuit Fault Detection in Permanent Magnet Synchronous Motors using Stator Current Monitoring
Bashir-Mahdi Ebrahimi and **Jawad Faiz**
IEEE Transactions on Power Electronics, Vol. 25, No. 10, October 2010, pp. 2673-2682.
159. Static Synchronous Compensator for Improving Performance of Power System: a Review
Ghazanfar Shahgholian and **Jawad Faiz**
International Review of Electrical Engineering-IREE, Vol. 5, No. 5, September-October 2010, pp. 2333-2342.

2011

160. Solid -State Tap-Changer of Transformers: Design. Control and Implementation
Jawad Faiz and Behzad Siahkolah
International Journal of Electrical Power and Energy Systems, Vol. 33, No. 2, February 2011, pp. 210-218.
161. Dynamic Performance of SMIB with STATCOM on Damping Low Frequency Oscillations
Ghazanfar Shahgholian, **Jawad Faiz** and Pegah Shafaghi
International Journal on Innovative Computing, Information and Control, Vol. 7, No. 4, April 2011, pp. 1-16.
162. Time-stepping finite element analysis of distribution transformers performance under unbalanced voltage and load
Jawad Faiz, Bashir Mahdi Ebrahimi, Mahmoud Ghofrani, Ramin Rajabioun and Ashkan Farazmand
International Journal of Electromagnetics, Vol. 31, No. 1, 2011, pp. 63-75.
163. Dynamic eccentricity fault diagnosis in round rotor synchronous motors
Bashir Mahdi Ebrahimi, Mohammad Etemadrezaei and **Jawad Faiz**
International Journal of Energy Conversion and Management, Vol. 52, No. 5, May 2011, pp. 2092-2097.
164. A Detailed Analytical Model of a Salient-Pole Synchronous Generator under Dynamic Eccentricity Fault

Mojtaba Babaei, **Jawad Faiz**, Bashir Mahdi Ebrahimi, S. Amini and Jalal Nazarzadeh
IEEE Transactions on Magnetics, Vol. 47, No. 4, 2011, pp. 764-771.
(Top Accessed Article March 2011)

165. Diagnosis and magnetic field analysis of small power salient-pole synchronous generator with static eccentricity using TSFEM
Jawad Faiz, Mojtaba Babaei, Jalal Nazarzadeh, Bashir Mahdi Ebrahimi, Sohrab Amini
International Journal of Electromagnetics, Vol. 31, No. 3, April 2011, pp. 173-191.
166. Impacts of rotor slots on interior permanent magnet motors performance
Bashir Mahdi Ebrahimi, **Jawad Faiz** and Arash Hasanpour-Isfahani
PRZEGLĄD ELEKTROTECHNICZNY (Electrical Review), ISSN 0033-2097, R. 87 NR 3/2011.
167. Eccentricity fault identification in round rotor synchronous motors considering load variation
Bashir Mahdi Ebrahimi, **Jawad Faiz** and Mohammad Etemadrezaie and Mojtaba Babaei
PRZEGLĄD ELEKTROTECHNICZNY (Electrical Review), ISSN 0033-2097, R. 87 NR 5/2011, pp. 288-292.
168. Stator Inductance Fluctuation of Induction Motor as an Eccentricity Fault Index
Jawad Faiz and Mansour Ojaghi\
IEEE Trans. on Magnetics, Vol. 47, No. 6, June 2011, pp. 1775-1785.
169. EMI Analysis and Evaluation of an Improved ZCT Flyback Converter
Mohammad Rohollah Yazdani, Hosein Farzanehfard, and **Jawad Faiz**
IEEE Trans. on Power Electronics, Vol. 26, No. 8, August 2011, pp. 2326-2334.
170. Analytical Estimation of Flux Waveforms in 8/6 Switched Reluctance Motors Based on Excitation of Flux Tube Method
Mojtaba Babaei, **Jawad Faiz**, Maryam Bahramgiri and Sohrab Amini
FACTA UNIVERSITITATIS (NIS), SER.: ELEC. ENERG. Vol. 24, no. 2, August 2011, pp. 234-256.
171. Classification and comparison of EMI mitigation techniques in switching power converters- A Review
Mohammad Rohollah Yazdani, Hosein Farzanehfard, and **Jawad Faiz**
Journal of Power Electronics, vol. 11, no. 5, pp.719-725,
172. Robust DTC Control of Doubly-Fed Induction Machines Based on Input-Output Feedback Linearization Using Recurrent Neural Networks
Amir Farrokh Payam, Mohammad Naser Hashemnia, and **Jawad Faiz**
Journal of Power Electronics, vol. 11, no. 5, pp.767-777, 2011
173. Performance Improvement of Permanent Magnet Linear Synchronous Motor Drive using Space Vector Modulated-Direct Thrust Force Control
Jawad Faiz, Mehdi Manoochehry and Ghazanfar Shahgholian
PRZEGLĄD ELEKTROTECHNICZNY (Electrical Review), ISSN 0033-2097, R. 87 NR 11/2011, pp. 239-244.
174. Performance analysis of line-start interior permanent magnet motors in comparison with induction motors
Bashir-Mahdi Ebrahimi and **Jawad Faiz**
Journal of the Japan Society of Applied Electromagnetics and Mechanics (JSAEM), Vol. 19, September 2011, pp. S145-S148.
175. Influence of load fluctuations on static eccentricity fault diagnosis of three-phase squirrel-cage induction motors
Hamid Ebrahimi, **Jawad Faiz** and Bashir-Mahdi Ebrahimi
Journal of the Japan Society of Applied Electromagnetics and Mechanics (JSAEM), Vol. 19, September 2011, pp. S149-S152.
176. Comparison of the Performance of Two Direct Waves Energy Conversion Systems: Archimedes Wave Swing and Power Buoy
Jawad Faiz and M. Ebrahimi-Salari
Journal of Marine Science and Application, Vol. 10, November 2011, pp. 419-428.
177. Comparison of different space-vector modulation types and analyzing their effects on a permanent-magnet linear synchronous motor load
J. Faiz, M. Manoochehry and G. Shahgholian
Journal of Electromotion, Mdiamira Science Publisher, Romania,Vol. 18, No. 3, July-September 2011, pp. 202.

2012

178. Magnetic Field and Vibration Monitoring in Permanent Magnet Synchronous Motors under Eccentricity Fault
Bashir-Mahdi Ebrahimi and **Jawad Faiz**
IET Electric Power Applications, 2012, Vol. 6, No. 1, pp. 35-45.
(Top Accessed Article March 2012-September 2012)
179. Configuration Impacts on Eccentricity Fault Detection in Permanent Magnet Synchronous Motors
Bashir Mahdi Ebrahimi and **Jawad Faiz**
IEEE Trans. on Magnetics, Vol. 48, No. 2, February 2012, pp. 903-906.
(Top Accessed Article Feb. 2012 and September 2012)
180. Locating Broken Bars in Line-Start and Inverter-Fed Induction Motors using Modified Winding Function Method
Jawad Faiz, Vahid Ghorbanian and Bashir Mahdi Ebrahimi
Journal of Electromagnetics, Vol. 32, No. 3, April 2012, pp. 173-192.
181. Novel Indices for Broken Rotor Bars Fault Diagnosis in Induction Motors using Wavelet Transform
Bashir Mahdi Ebrahimi, **Jawad Faiz**, Saeed Lotfi-fard Pragasen Pillay
Journal of Mechanical Systems and Signal Processing, Vol. 30, July 2012, pp. 131-145.
182. Over-current relay implementation assuring fast and secure operation in transient conditions
Saeed Lotfifard, **Jawad Faiz** and Mladen Kezunovic
Power Systems Research, Vol. 91, October 2012, pp. 1-8.
(The most downloaded articles from SciVerse ScienceDirect in the last 90 days- Sept. 4, 2012)
183. Influence of Simulation Precision on Broken Rotor Bars Fault Diagnosis Accuracy in Induction Motors
Wejdan Abu-Elhaija, B.M. Ebrahimi and **Jawad Faiz**
IREE, April 2012, Vol. 7, No. 2, Part B.
184. Performance Analysis of Saturated Induction Motors by Virtual Tests
Mansour Ojaghi, **Jawad Faiz**, Majid Kazemi and Mohsen Rezaei
IEEE Transactions on Education, Vol. 55, No. 3, August 2012, pp. 370-377.
185. Calculating Leakage Inductances of Split-Windings in Dry-Type Traction Transformers
Davood Azizia, Mehdi Vakilian, **Jawad Faiz** and Mehdi Bigdeli
ECTI Trans. on Electrical Eng., Electronics, and Communications, Vol. 10, No. 1, February 2012, pp. 99-106.
186. Induction Motors Performance Study under Various Voltage Sags Using Simulation
Mansour Ojaghi, **Jawad Faiz**, Hamid Shahrouzi, and Sahar Alimohammad
Journal of International Conference on Electrical Machines and Systems. Vol.1, No.3, 2012, pp.32-39.
187. Performance Analysis of a Cylindrical Eddy Current Brake
Sharifaddin Sharif, **Jawad Faiz** and Korosh Sharif
IET, Electric Power Applications, Vol. 6, No. 9, 2012. pp. 661-668.
188. Pattern Recognition for Broken Bars Fault Diagnosis in Induction Motors under Various Supply Conditions
Bashir Mahdi Ebrahimi, **Jawad Faiz** and Bilal Akin
European Transactions on Electrical Power, Vol. 22, 2012, pp. 1176-1190.
189. Exact Modeling and Simulation of Saturated Induction Motors with Broken Rotor Bars Fault using Winding Function Approach
M. Ojaghi, M. Sabouri, **J. Faiz** and V.Ghorbanian
International Journal on Technical and Physical Problems of Engineering, Vol. 4, Issue 12, No. 3, 2012.

2013

190. Implementation of Full Adaptive Technique to Optimal Coordination of Over-current Relays
Mansour Ojaghi, Zeinab Sudi, and **Jawad Faiz**
IEEE Transactions on Power Delivery, Vol. 28, No. 1, January 2013, pp. 235-244.
191. Losses Calculation in Line-Start and Inverter-Fed Induction Motors under Broken Bars Fault
Bashir Mahdi Ebrahimi, Amir Masoud Takbash, and **Jawad Faiz**
IEEE Transactions on Instrumentation and Measurement, Vol. 92, No. 1, pp. 140-152
192. Demagnetization Fault Diagnosis in Surface mounted Permanent Magnet Synchronous Motors
Bashir Mahdi Ebrahimi and **Jawad Faiz**

IEEE Transactions on Magnetics, Vol. 49, No. 3, March 2013, pp. 1185-1192.

193. Losses Characterization in Voltage-Fed PWM Inverter Induction Motor Drives under Rotor Broken Bars Fault
Amir Masoud. Takbash, **Jawad Faiz** and Bashir Mahdi .Ebrahimi
IEEE Transactions on Magnetics, Vol 49, N0. 4m April 2013, pp. 1516-1525.
194. Current control technique for wind turbine- A review
J. Faiz, A. Hakimi-Tehrani and G. Shahgholian
Electromotion, Vol. 19, No. 3-4, July-December 2012, pp. 151-168
195. FEM-based analysis of induction motors with adjacent and non-adjacent broken bars
J. Faiz, V. Ghorbanian, H. Ehya
International Journal of Electromotion, Mediamira Science Publisher, Romania, vol. 20, No. 1-4, Jan./Dec. 2013, pp. 118-121.
196. Direct torque control of three-phase induction motor by single-phase to three-phase matrix converter
M. Ojaghi, R. Rasoulirad, **J. Faiz**
International Journal of Electromotion, Mediamira Science Publisher, Romania, vol. 20, No. 1-4, Jan./Dec. 2013, pp. 133-137.
197. Design of four-pole permanent-magnet motor with different rotor topologies
P. Shamas Ghahfarokhi and **Jawad Faiz**
International Journal of Electromotion, Mediamira Science Publisher, Romania, vol. 20, No. 1-4, Jan./Dec. 2013, pp. 166-171.
198. Derating of Three-phase Squirrel-cage Induction Motor under Broken Bars Fault
Jawad Faiz, Amir Masoud Takbash
Facta Universitatis, Series: Automatic Control and Robotics, Vol. 12, No. 3, 2013, pp. 147-156.

2014

199. Advanced Eccentricity Fault Recognition in Permanent Magnet Synchronous Motors using Stator Current Signature Analysis
Bashir Mahdi Ebrahimi, Mehrsan Javan Roshtkhari, **Jawad Faiz**, and Seyed Vahid Khatami
IEEE Transactions on Industrial Electronics, vol. 61, no. 4, April 2014, pp. 2041-2052
200. Exact Modeling and Simulation of Saturated Induction Motors with Broken Rotor Bars Fault using Winding Function Approach
M. Ojaghi, M. Sabouri, **J. Faiz** and V. Ghorbanian
International Journal of Engineering, IJE Transactions A: Basics
Vol. 27, No. 1, January 2014, pp. 69-78.
201. A New Multi-Winding Traction Transformer Equivalent Circuit for Short-Circuit Performance Analysis
Davood Azizian, Mehdi Vakilian and **Jawad Faiz**
International Transactions on Electrical Energy Systems, Vol. 24, No. 2, Feb. 2014, pp. 186-202.
202. Analytical Estimation of Short Circuit Axial and Radial Forces on Power Transformers Windings
Bashir Mahdi Ebrahimi, Alireza Fereidunian, Saeed Saffari and **Jawad Faiz**
IET Generation, Transmission and Distribution, Vol. 8, No. 2, Feb. 2014, pp. 250-260.
203. EMD-Based Analysis of Industrial Induction Motors wit Broken Rotor Bar for Identification of Operating Point at Different Supply Modes
Jawad Faiz, V. Ghorbanian and B. M. Ebrahimi.
IEEE Transactions on Informatics, Vol. 10, N0. 2, May 2014, pp. 957-966.
204. Conducted Electromagnetic Interference Evaluation of Forward Converter with Symmetric Topology and Passive Filter
M. R. Yazdani, N. A. Filabadi, **J. Faiz**
IET Power Electronics, Vol. 7, No. 5, May 2014, pp. 1113-1120.
205. An Improved Magnetic Equivalent Circuit Method for Evaluation of Different Inductances of a Squirrel-cage Induction Motor in Healthy and Faulty Conditions
Jawad Faiz, Chasemi-Bijan, and B. M. Ebrahimi
International Journal of Electromagnetics, Vol. 34, No. 5, June 2014, pp. 363-379.
206. Diagnosis Methods for Stator Winding Faults in Three-phase Squirrel-cage Induction Motors
Mansour Ojaghi, Mahdi Sabouri, **Jawad Faiz**
International Transactions on Electrical Energy Systems, Vol. 24, No. 6, June 2014, pp. 891-912.
207. PM Locating for Cogging Torque Reduction in a Single-phase Surface-mounted PM Motor
Jawad Faiz, A. H. Tavakol-zadeh and Gh. Shahgholian

Electrotechnica & Electonica (E+E), Vol. 48, No. 11-11/213, The Union of Electronics, Electrical Engineering and Telecommunications/CEEC/Bulgaria. pp. 24-29.

208. Diagnosing Power Transformers Faults
Jawad Faiz and Reza Heydarabadi
Russian Electrical Journal, 2014, Vol. 85, No. 12, pp. 785-793. Springer, Allerton Press, Inc.

2015

209. A Survey on Time and Frequency Characteristics of Induction Motors with Broken Rotor Bars in Line-start and Inverter-fed Modes.
Vahid Ghorbanian and **Jawad Faiz**
International Journal of Mechanical Systems and Signal Processing, Elsevier, 54-55, 2015, pp. 427-456.
210. Estimation of Induction Machine Inductances using Three-Dimensional Equivalent Circuit
Jawad Faiz and Mahmud Ghasemi-Bijan (Popular view-May 2015).
IET Electric Power Applications, Feb. 2015, Vol. 9, No. 2, pp. 117-127.
211. Coordinated Design of TCSC and PSS controllers Using VURPSO and Genetic Algorithms for Multi-Machine Power System Stability
Ghazanfar Shahgholian, Amir Movahedi and **Jawad Faiz**
International Journal of Control, Automation and Systems (Springer), 2015, Vol. 13, No. 2, pp. 1-12.
212. Modeling and Analysis of a Switched Reluctance Generator Using Finite Element Method
B. Ganji, M. Heidarian, and **J. Faiz**
Ain Shams Engineering Journal, Elsevier, Feb. 2015, No. 6, pp. 85-93.
213. A Novel Analytical Technique for estimation of Flux Densities Waveforms within 8/6 Switched Reluctance Motors
M. Babaei and **J. Faiz**
International Journal of Technical and Physical Problems on Electrical Engineering, Vol. 7, No. 22, No. 1. March 2015, pp. 33-37.
214. Modeling and Diagnosing Eccentricity Fault using Three-Dimensional Magnetic Equivalent Circuit Model of Three-phase Squirrel-Cage Induction Motor
Jawad Faiz, M. Ghasemi-Bijan and B. M. Ebrahimi
Electric Power Components and Systems, Vol. 43, No. 11, pp. 1246-1256.
215. Derating of Transformers under Non-Linear Load Current and Non-Sinusoidal Voltage- An Overview
Jawad Faiz and M. Ghazizad and H. Oraee
IET Electric Power applications, Vol. 9, No. 7, pp. 486-495.
216. Torque Ripples Reduction in Switched Reluctance Motors: A Review
Ghazanfar Shahgholian, Ali Reza Sahafi, **Jawad Faiz**
International Journal of Electromotion, Vol. 22, No. 1-2, Jan.-Jun. 2015, pp. 35-56.
217. A fast general core loss model for switched reluctance machine
B. Ganji, Z. Mansourkiaee, **J. Faiz**
Energy, Elsevier, Vol. 89, September 2015, pp. 100-105.
218. Frequency Control of Isolated WT/PV/SOFC/UC Network with New Control Strategy for Improving SOFC Dynamic Response.
Mahdi Taghizadeh, Mohammad Hoseintabar and **Jawad Faiz**
International Transactions on Electrical Energy Systems, Vol. 25, No. 9, September 2015, pp. 1748-1770.

2016

219. Recent Progresses in Bus-ducts Design
Jawad Faiz, Hosein Ehya, M. Takbash, S. Shojaeei, M. Hamidian, A. Ghorbani.
COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Vol. 35, No. 1, January 2016, pp. 117-136.
220. Eccentricity Fault Detection-From Induction Machines to DFIG - A Review
Jawad Faiz and S.M. Moosavi
Journal of Renewable & Sustainable Energy Reviews, Elsevier, Vol. 55, March 2016, pp. 169-179.

221. Impacts of Rotor Inter-turn Short Circuit Fault upon Performance of Wound Rotor Induction Machines
Jawad Faiz, M. Keravand, M. Ghasemi-Bijan.
International Journal of Electric Power Systems Research, 135, 2016, pp. 48-58.
222. Demagnetization Fault Indexes in Permanent Magnet Synchronous Motors – An Overview
Jawad Faiz and H. Nezhad-Koti
IEEE Trans. on Magnetics, Vol. 52, No. 4, April 2016, pp. 8201511.
223. Design Optimization of Cast-Resin Transformer Using Nature-Inspired Algorithm.
Davod Azizian, Mehdi Bigdeli and **Jawad Faiz**
Arabian Journal of Science and Technology, Springer, Vol. 41, No. 9, pp. 3491-3500.
224. Derating of distribution transformers under non-linear loads using a combined analytical-finite elements approach
Milad Ghazizadeh, **Jawad Faiz**; Hashem Oraee
IET Electric Power Applications, Vol. 10, No. 8, p. 779 –787
DOI: 10.1049/iet-epa.2016.0103

225. Speed Control of Wind Turbine through Pitch Control using Different Control Techniques
Jawad Faiz, Arash Hakimi Tehrani, Ghazanfar Shahgholian and A. M. Takbash
Journal of Renewable Energy and Environment, Vol. 3, No. 2, Spring 2016, pp. 15-24.
226. Magnetic Equivalent Circuit Modeling of Doubly-Fed Induction Generator with Assessment of Rotor Inter-Turn Short-Circuit Fault Indices
Jawad Faiz, Seyed M.M. Moosavi, Mohsen B. Abadi, Sergio M.A. Cruz.
IET Renewable Generation Power, Vol. 10, No. 9, pp. 1431-1440, September 2016.
227. Planetary Gearbox Torsional Vibration Effects on Wound Rotor Induction Generator Electrical Signatures
Mohammad Hoseintabar Marzebali, Shahin Hedayati Kia, Humberto Henao, Gérard-André Capolino, **Jawad Faiz**.
IEEE Transations on Industry Applications, Vol. 52, No. 6, Nov./Dec. 2016, pp. 4770-4780.
228. Voltage Sag in Distribution Systems- A review and comparative study (Causes, Characteristics, Compensations and Detection)
G. Shahgholian, Z. Azimiy, **J. Faiz**
Journal of Electric Power and Energy Conversion Systems (JEPECS)
Shahed University Publishing Center, Iran, Vol. 1, No. 3, 2016, pp. 107.119.
229. Analysis of Speed Control in DC Motor Drive Based on Model Reference Adaptive Control
Ghazanfar Shahgholian, Mojtaba Maghsoodi and **Jawad Faiz**
Journal of Electric Power and Energy Conversion Systems (JEPECS)
Shahed University Publishing Center, Iran, Vol. 1, No. 2, Summer 2016, pp. 66-71.119.

2017

230. Comprehensive Review on Inter-Turn Fault Indexes in Permanent Magnet Motors
Jawad Faiz, Hossein Nezhad-Koti and Zahra Valipour (Popular view-Feb. 2017).
IET Electric Power Applications, Vol.11, No.1, January 2017, pp. 142-1
231. Unbalanced Magnetic Force Analysis in Eccentric Surface Permanent-Magnet Motors Using an Improved Conformal Mapping Method
Farhad Rezaei-Alam, Behrooz Rezaeealam and **Jawad Faiz**
IEEE Transations on Energy Conversion, Vol. 32, No. 1, January 2017, pp. 146-154.
232. Dissolved Gas Analysis Evaluation using Conventional Methods for Fault Diagnosis in Electric Power Transformers- A Review (Popular view-April 2017-June 2018).
Jawad Faiz and Milad Soleimani
IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 24, No. 2, pp. 1239-1248, April 2017.
233. Demagnetization Modeling and Fault Diagnosing Techniques in Permanent Magnet Machines under Stationary and Non-Stationary Conditions - An Overview
Jawad Faiz and Ehsan Mazaheri
IEEE Trans. on Industry Applications, Vol. 53, No. 33, No. 3, pp. 2772-2785.
234. Precise Locating of Stator Winding Earth Fault in Large Synchronous Generators,
Mahdi Davarpanah, Mehran. Keravand, **Jawad Faiz,** Amir Mousa-Haddadi,

Hamied Morsali, Ali Mahmoodi and Ahmad Amiri.
IEEE Trans. on Industry Applications, Vol. 53, No. 33, No. 3, pp. 3137-3145,

235. Inductance-based Inter-Turn Fault Detection in Permanent Magnet Synchronous Machine using Magnetic Equivalent Circuit Model
Jawad Faiz, Hossein Nezhad-Koti and H. Exiri
Electric Power Components and Systems, Vol. 45, No. 9, pp. 1016-1030, 2017.
236. Detection of Mixed Eccentricity Fault in Doubly-fed Induction Generator based on Reactive Power Spectrum
Jawad Faiz, Seyed M.M. Moosavi
IET Electric Power Applications, Vol. 11, No. 6, pp. 1076-1084, July 2017.
237. Linear electrical generator topologies for direct-drive marine wave energy conversion-State of the Art
Jawad Faiz and Alireza Nematsaberi
IET Renewable Power Generation, Vol. 11, No. 9, pp. 1163-1176.

2018

238. Analytic Model for Induction Motors under Localized Bearing Faults
Mansour Ojaghi, Mahdi Sabouri, and **Jawad Faiz**
IEEE Transactions on Energy Conversion, Vol. 33, No. 2, June 2018, pp. 617-626.
239. Planetary Gear Fault Detection Based-on Mechanical Torque and Stator Current Signatures of Wound Rotor Induction Generator
Mohammad Hoseintabar Marzerbali, **Jawad Faiz**, Gerard-Andre Capolino, Shahin Hedayati Kia and Humberto Henao
IEEE Transactions on Energy Conversion, Vol. 33, No. 3, September 2018, pp. 1072-1085.
240. Application of Signal Processing Techniques for Fault Diagnosis of Induction Motors- A Review - Part I
J. Faiz, A. M. Takbash and E. Mazaheri-Tehrani
AUT Journal of Electrical Engineering, Vol. 49, No. 2, 2017, pp 109-122.
241. Application of Signal Processing Techniques for Fault Diagnosis of Induction Motors- Part II
J. Faiz, A. M. Takbash and E. Mazaheri-Tehrani
AUT Journal of Electrical Engineering, Vol. 50, No. 1, Spring 2018, pp 3-12.
242. Assessment of Computational Intelligence and Conventional Dissolved Gas Analysis Methods for Transformer Fault Diagnosis
Jawad Faiz and Milad Soleimani
IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 25, No. 5, October 2018, pp. 1798-1806.
243. A Novel Linear Stator-PM Vernier Machine with Spoke-Type Magnets
Alireza Nematsaberi and **Jawad Faiz**
IEEE Transactions on Magnetics, Vol. 54, No. 11, Nov. 2018, Paper 8106905.
244. Performance Analysis of Squirrel Cage Induction Motors under Broken Rotor Bar and Stator Inter-turn Fault Conditions using Analytical Modeling
Mansour Ojaghi, Mahdi Sabouri, and **Jawad Faiz**
IEEE Transactions on Magnetics, Vol. 54, No. 11, Nov. 2018, Paper 8203705.
245. Turn-to-turn fault monitoring methods in electrical power transformers—State of the art
Mohsen Mostafaei, **Jawad Faiz**, Prasad A. Venikar, Makarand S. Ballal
International Transactions on Electrical Energy Systems. Vol. 28, No. 2, Dec. 2018, pp 1-22.
246. Analytical Technique for Analysis and Detection of Eccentricity Fault in Surface-Mounted Permanent Magnet Generators using No-Load Voltage Signature
Mohammadreza Hassanzadeh, **Jawad Faiz**, and Arash Kiyoumarsi
Electric Power Components and Systems, Vol. 46, No. 8, pp. 957-973, 2018.

2019

247. A Fast Phase Variable abc Model of Brushless PM Motors Under Demagnetization Faults
Ehsan MazaherTehrani, **Jawad Faiz**, Mohsen Zafarani, and Bilal Akin
IEEE Trans. on Industrial Electronics, Vol. 66, No. 7, July 2019, pp. 5070-5080.

248. Comparison of Rotor Electrical Fault Indices owing to Inter-turn Short Circuit and Unbalanced Resistance in Doubly-Fed Induction Generator
Seyed M.M. Moosavi, **Jawad Faiz**, Mohsen B. Abadi, Sérgio M.A. Cruz
IET Electric Power Applications, Vol. 13, No. 2, 2019, pp. 243-250.
249. A New Analytical Technique for Analysis and Detection of Air-Gap Eccentricity Fault in Surface-Mounted Permanent-magnet Machines
Mohammadreza Hassanzadeh, **Jawad Faiz**, and Arash Kiyoumarsi
International Transactions on Electrical Energy Systems, 2019; 29:e2764, March 2019, pp. 1-25.
Doi.org/10.1002/etep.2764.
250. A New Hybrid Analytical Model Based on Winding Function Theory for Analysis of Surface Mounted Permanent Magnet Motors
Jawad Faiz and Farhad Rezaei-Alam
The International Journal of Computation and Mathematics in Electrical and Electronic Engineering (COMPEL), March 2019,
Doi.org/10.1108/COMPLEL-08-2018-0303.
251. Thermal analysis of power transformers under unbalanced supply voltage
Morteza Mikha-Beyranvand, **Jawad Faiz**, Behrooz Rezaeealam, Afshin Rezaei-Zare, Mehrdad Jafarboland
IET Electric Power Applications, Vol. 13, No. 4, 2019, pp. 503-512.
252. Analytical Calculation of Magnetic Field in Surface-Mounted Permanent-magnet Machines with Air-Gap Eccentricity
Jawad Faiz, Mohammadreza Hassanzadeh, and Arash Kiyoumarsi
The International Journal of Computation and Mathematics in Electrical and Electronic Engineering (COMPEL), 2019,
DOI 10.1108/COMPEL-07-2018-0284
253. Impacts of Ferroresonance and Inrush Current Forces on Transformer Windings
Morteza Mikhak-Beyranvand1, Behrooz Rezaeealam, **Jawad Faiz**, Afshin Rezaei-Zare
IET Electric Power Applications, Vol. 13, No. 7, pp. 914 –921.
254. Investigating the Applicability of the Finite Integration Technique for Studying the Frequency Response of the Transformer Winding,
Mohammad Hamed Samimi, Philipp Hillenbrand, Stefan Tenbohlen, Amir Abbas Shayegani Akmal, Hossein Mohseni and **Jawad Faiz**
International Journal of Electrical Power and Energy Systems, Volume 110, September 2019, pp. 411-418.
255**.** Eccentricity fault diagnosis indices for permanent magnet machines: state-of-the-art
Jawad Faiz and Hossein Nejadi-Koti
IET Electric Power Applications, Vol. 13, No. 9, p. 1241 –1254.
256. Robust Design of an Outer Rotor Permanent Magnet Motor through Six Sigma Methodology using Response Surface Surrogate Model
Vahid Rafiee and **Jawad Faiz**
IEEE Transactions on Magnetics, Vol. 55, No. 10, Paper 8107110.
257. Response surface method based optimization of outer rotor permanent magnet synchronous motor
Vahid Rafiee and **Jawad Faiz**
JET, Slovenia, Vol. 12, No. 3, pp. 43-52, November 2019.
258. Torque ripple and switching frequency reduction of interior permanent magnet brushless direct current motors using a novel control technique
Jawad Faiz, Mehdi Heidari and Hussein Sharafi
IET Power Electronics, Vol. 12, No. 14, pp. 3852 –3858.
DOI: 10.1049/iet-pel.2018.6303.
259. Diagnosis of Inter-turn Fault in Stator Winding of Turbo-generator
Jawad Faiz, Ali Mahmoodi, Mehran Keravand, and Mahdi Davarpanah
International Transactions on Electrical Energy Systems Vol. , No…, pp…
DOI: 10.1002/2050-7038.12132, Dec. 2019.
260. Double-stator switched reluctance generator
Ashkan Karimi Koopar and **Jawad Faiz**
Journal of Electrical Engineering (E+E), Vol. 54, No. 5-6, pp. 105-110, 2019
261. Thermal Analysis of Power Transformer using an Improved Dynamic Thermal Equivalent Circuit Model
Morteza Mikhak-Beyranvand1, **Jawad Faiz**, and Behrooz Rezaeealam

Power Components and Systems, 2019

2020

262. Performance modifications and design aspects of rotating flux switching permanent magnet machines: a review
Amin Nobahari, Mehdi Aliahmadi and **Jawad Faiz**
IET Electric Power Applications, Vol. 14, No. 1, pp. 1 –15, 2020. (Most downloaded Jan.-April 2020)
263. Model-based unified technique for identifying severities of stator inter-turn and rotor broken bar faults in squirrel cage induction motors
Mehdi Sabouri, Mansour Ojaghi, **Jawad Faiz**, Antonio J. Marques Cardoso
IET Electric Power Applications, Vol. 14, No. 2, pp. 201-211, 2020.
264. Ferrite Permanent Magnets in Electrical Machines: Opportunities and Challenges Rare-Earth Alternative
Hamed Tahanian, Mehdi Aliahmadi, and **Jawad Faiz**
IEEE Transactions on Magnetics, Volo. 56, No. 3, March 2020, Paper 900120.
265. Thermal Analysis and Derating of a Power Transformer with Harmonic Loads
Jawad Faiz, Morteza Mikhak-Beyranv, and Behrooz Rezaeealam
IET Generation, Transmission & Distribution, 2020.
266. Dynamic Air gap Asymmetry Fault Detection in Single-sided Linear Induction Motors
Jawad Faiz, Ghods, A. Tajdiny
IET Electric Power Applications, Vol. 14, No. 4, pp. 605-613, April 2020.
267. Temperature Measuring based Decision Making Prognostic Approach in Electric Power Transformers Failures
Milad Soleimani, **Jawad Faiz**, Pedram Shahriarinasab and Mehdi Moallem
IEEE Trans. on Instruments and Measurement, Vol. 69, No. 9, pp. 6995-7003, September 2020.
DOI: 10.1109/TIM.2020.2975386.
268. Electromagnetic and Thermal Behavior of a Single-phase Transformer during Ferroresonance Considering Hysteresis Model of Core
Morteza Mikhak-Beyranvand, **Jawad Faiz**, Afshin Rezaei-Zare and Behrooz Rezaeealam
International Journal of Electrical Power and Energy 121 (2020) 1060783.
269. Sub-Domain Analysis of Asymmetrical Magnetic Field in Electrical Machines
S. Amini Velashani and **J. Faiz**
Progress In Electromagnetics Research C, Vol. 104, 215-228, 2020.
270 Design of dual rotor axial flux permanent magnet generators with Ferrite and rare-earth magnets
Jawad Faiz, Tohid Asefi, Mohammad Azeem Khan
Electronics and Energetics Vol. 33, No 4, December 2020, pp. 553-569
https://doi.org/10.2298/FUEE2004553F
271. Optimization of Synchronous Reluctance Motor Based on Radial Basis Network
Amirhossein Erfani Nik and **Jawad Faiz**
Serbian Journal of Electrical Engineering, Vol. 17, No. 2, pp. 223-234, June 2020.
271. A Novel Structure of Switched Reluctance Machine with Higher Mean Torque and Lower Torque Ripple
Gholamreza Davarpanah and **Jawad Faiz,**
IEEE Transactions on Energy Conversion, Vol. 35, No. 4, pp. 1859-1867, Dec. 2020.
272. Permanent magnet Vernier generator under dynamic eccentricity fault: diagnosis and detection
Mehrage Ghods and **Jawad Faiz**
IET Electric Power Applications, Vol. 14, No. 12, pp. 2490-2498, Dec 2020.

2021

273. Simple and Efficient Current Based Method for Inter-turn Fault Diagnosis of Brush-less Direct Current Motor
Ahmad Jafari, **Jawad Faiz**, Mohammad Amin Jarrahi
IEEE Transactions on Industrial Informatics, Vol. 17, No. 4, pp. 2707-2715, April 2021.
274. Design and Performance of Linear Vernier Generators – The State of the Art and Case Study
Jawad Faiz, Sohrab Amini, and Mehrag Ghods
International Transactions on Electrical Energy Systems Vol. 31, No. 3, March 2021, pp. 1-20.

275. Analytical Technique for Diagnosis of Different Mechanical Faults in Permanent Magnet Transverse Flux Generators
Pourmousa, Mehrage Ghods, **Jawad Faiz** and Sadegh Vaez-zadeh
IET Electric Power Applications, Vol. 15, No. 5, May 2021, pp528-541.
276. An Overview of Various Faults Detection Methods in Synchronous Generators
Mohsen Mostafaei, **Jawad Faiz**
IET Electric Power Applications, Vol. 15, No. 4, April 2021, pp. 391-404.
277. A Novel Thermal Model for Monitoring Temperature of Distribution Transformers
Vahid Shiravand, **Jawad Faiz**, Mohammad Hamed Samimi, and Mohammad Djamali
International Journal of Electrical Power and Energy Systems, Vol. 128, June 2021,106748.
278. Analytical Evalution of Core Losses, Thermal Modelling and Insulation Lifespan Prediction for Induction Motor in Presence of Harmonic and Voltage unbalance
M. Ghods, **J. Faiz**, A. A. Pourmoosa, S. Khosrogorji
International Journal of Engineering (IJT) Transactions B: Applications, Vol. 34, No. 5, May 2021, pp. 1213-1224
279. Various parameters influence on field distribution in eccentric disc-type permanent magnet machine based on analytical method
Mohammad Rajabi-Sebdani, Ahmad Darabi and **Jawad Faiz**
Australian Journal of Electrical and Electronics Engineering (AJEEE), Vol. 18, No. 1, 2021, pp. 21-30.
280. Nonlinear Modeling of a C-core Connected Two-Phase Switched Reluctance Motor
Gholamreza Davarpanah and **Jawad Faiz,**
IEEE Transactions on Energy Conversion Vol. 36 No. 4, pp. 2761-2769, Dec. 2021.
281. Impacts of Number of Poles and Slots on Armature Reaction and Performance of Ironless Permanent Magnet Motors
Morteza Mikhak-Beyranvand, **Jawad Faiz** and Javad Khoshtaras
Electric Power Components and Systems, Vol. 48, No. 19-20, pp. 1979-1991.
282. Prediction of Transformer Fault in Cooling System using Combining Advanced Thermal Model and Thermography
Vahid Shiravand, **Jawad Faiz**, Mohammad Hamed Samimi, Mehdi Mehrabi-Kermani
IET Generation, Transmission and Distribution, Vol. 15, No. 15 , pp. 1972-1983.
283. Analysis and detection of turn-to-turn short circuit fault in a permanent magnet Vernier generator based on modified winding function
MohammadHossein Arianborna, **Jawad Faiz**, Mehrage Ghods and MohammadAmin Bazrafshan
IET Electric Power Applications, Vol. 15, No. 12, Dec. 2021, pp. 1630-1647.
284. Single stator-single rotor permanent magnet Vernier machine topologies for direct-drive applications: Review and case study
Jawad Faiz, Mehrage Ghods, Mohammad Hossein Arianborna
International Transactions on Electrical Energy Systems, Vol. 31, No. 12, Dec. 2021, pp 1-29. 2021; 31:e13240.
285. Finite element analysis of inter-turn fault in a brushless direct current drive
Jawad Faiz, Ahmad Jafari
"E+E" Journal, vol. 56, 5-8, 2021, pp. 74-80.
286. Experimental Parameter Estimation of Induction Motor Based on Transient and Steady-state Responses in Synchronous and Rotor Reference Frames
Zahra Masoumi, Bijan Moaveni, Mojtaba Khorshidi, **Jawad Faiz**, Sayed Mohammad Mousavi Gazafrudi
IEEE Transations on Energy Conversion,
287. Improving the transformer thermal modeling by considering additional thermal points
V Shiravand, **J Faiz**, MH Samimi, M Djamali
International Journal of Electrical Power & Energy Systems 128, 1067, 48, 3, 2021.
288. Diagnosis and detection of dynamic eccentricity fault for permanent magnet transverse flux generator
A. A. Pourmoosa, M. Ghods, **J. Faiz**, S. Vaez- Zadeh
IET Electric Power Applications 15 (5), 528-541, 1, 2021.

g) National Conferences Papers (in Persian)

1 Effective factor on the performance of incandescent lamps
J. Faiz
1st Researches Seminar on Lamp Industries, 1988, University of Tehran

2 Circuit model of a small five-legs three-phase transformer
J. Faiz, A. Chenaghlo, A.H. Novin and M.B.B. Sharifian
1st Iranian Conference of Electrical Engineering, Amir Kabir University of Technology, 1992

3 Air-coils and design technique of its special type, 5th Power System conference, 1990, Tavanir, Tehran.
J. Faiz and A. Mohammadi

4 Transient analysis of induction motor and its effect upon power distribution networks
J. Faiz and M.B.B. Sharifian
11th Power System conference, 1997, Tavanir, Tehran

5 A precise analysis of two-dimensional magnetic field in external-rotor PM motor
J. Faiz and H. Jafari
7th Iranian Conference of Electrical Engineering, Telecommunications Research Center, Tehran, 1999

6 Comparison of soft and quick starting of a rotor-wound induction motor ising three different circuits in the rotor circuit
J. Faiz and Gh. Soltani-Khosroshahi
8th Iranian Conference of Electrical Engineering, Isfahan University of Technoloy, Isfahan, 2000.

7 Electric vehicles: Present and future
J. Faiz
Ministry of Industries Environment Seminar, 1990, Tehran

8 Reclosing torque of a three-phase induction motor supplied by inverter-noload and on-load
J. Faiz and A. Noozade-Amaneh
8th Iranian Conference of Electrical Engineering, Isfahan University of Technoloy, Isfahan, 2000.

9 Calculation of influence of different eccentricities on inductances of induction motor
J. Faiz, Iman Tabatabaeei and E. Sharifi-Ghazvini
10th Iranian Conference of Electrical Engineering, University of Tabriz, 2002

10 Optimal design of a three-phase induction motor for electric vehicle
J. Faiz, and M.B.B. Sharifian
10th Iranian Conference of Electrical Engineering, University of Tabriz, 2002.

11 Analysis of stability and predictive control of step motor oscillations
J. Faiz and K. Banan-Ali-Abbasi
10th Iranian Conference of Electrical Engineering, University of Tabriz, 2002

12 Adaptive control of a PMSM motor using neural network
J. Faiz and A. R. Ghaffari
10th Iranian Conference of Electrical Engineering, University of Tabriz, 2002

13 Estimation of losses in power transformers and reduction technique for the losses
J. Faiz, M.B.B. Sharifian and A. Zraatparvar
10th Iranian Conference of Electrical Engineering, University of Tabriz, 2002

14 Optimal design of a three-phase induction motor for electric vehicle over voltage and speed domains.
J. Faiz and M. Ghaneei
1th Hybrid and Electric Vehicles Seminar, University of Sciences and Technology, Tehran, 2001.

15 Computation of short circuit impedance of transformer using energy method
Naderian, H. Mohseni and **J. Faiz**
16th Power System conference, 2001, Tavanir, Tehran A.

16 Study of saturation effect on a salient-pole synchronous generator using phase domain model
A. Rezaeei-zarea anf **J. Faiz**
16th Power System conference, 2001, Tavanir, Tehran A.

17 Performance of a squirrel-cage three-phase induction motor under mixed eccentricity.

J. Faiz, Iman Tabatabaeei, E. Sharifi-Ghazvini and H. Mekin-Kelk

۱۸ 17th Power System conference, 2002, Tavanir, Tehran
Solid-state tap-changer of distribution transformers for power quality improvement
J. Faiz and B. Siahkolah

۱۹ 17th Power System conference, 2002, Tavanir, Tehran.
Comparison of two analytical models and modified magnetic circuit model in prediction of dynamic performance of switched reluctance motor using experimental results
J. Faiz, B. Ganji, M. Moallem and K. Moayed-zadeh

۲۰ 11th Iranian Conference of Electrical Engineering, University of Shiraz, 2003 .
Induction generator performance after disconnection from the power system network
J. Faiz and M. Davar-panah

۲۱ 18th Power System conference, 2003, Tavanir, Tehran
Diagnosis of rotor broken bars fault in squirrel-cage induction motor using Neural Network
M. R. Rafie-Manzelat, B. Najjar-Aarabi, **J. Faiz** and E. Sharifi-Ghazvini

۲۲ 19th Power System conference, 2004, Tehran
Thermal modeling of switched reluctance motors
Ha. Rouhani, **J. Faiz**, C. Lucas and Ho. Rouhani

23 19th Power System conference, 2004, Tehran
Design of switched reluctance generator for wind energy
J. Faiz and R. Fazaei
19th Power System conference, 2004, Tehran

24 Optimal selection of excitation angles in high speed switched reluctance generator
J. Faiz and R. Fazaei
19th Power System conference, 2004, Tehran

25 Line current sugniture analysis for identification of turn-to-turn fault of induction motors considering magnetic saturation
Mansour Ojaghi, **Jawad Faiz** and Mahdi Sabouri,
26th Power System conference, 31 Oct. - 2 Nov, 2011, Tehran

26 Impact of magnetic saturation on swing pendulum index for turn-to-turn fault of induction motors
Mansour Ojaghi, **Jawad Faiz**, Vahid Rashtchi and Mahdi Sabouri,
26th Power System conference, 31 Oct. - 2 Nov, 2011, Tehran

27 Determining optimal poles arc in switched reluctance motor to achieve maximum mean torque and minimum torque ripple
Jafar Nouroozi, Babak Gangi and **Jawad Faiz**
25th Iranian Conference of Electrical Engineering, Khajeh-Nasirrodyn University of Technology, Tehran, 2-4 May 2018.

h) National Journals Papers (in Persian)

1 Incandescent lamp filament and recent researches, 1980,
J. Faiz
Journal of Faculty of Engineering, University of Tabriz, Iran

2 Capacitance requirement for induction generator including core losses,
J. Faiz and A.A. Khamenian
1993, Journal of Faculty of Engineering, University of Ferdosi, Mashad, Iran.

3 Closed-loop performance of induction motor drives with slip recovery energy for load and voltage signal disturbance,
J. Faiz and H. Barati
1997, Journal of Amir Kabir University of Technology, Tehran, Iran.

4 A proper technique for improvement of starting and performance of a three-phase induction motor connected to a single-phase system,
J. Faiz and M. Yari
1996, Journal of Faculty of Engineering, University of Tabriz, Iran.

5 A dynamic analysis of a two-teeth per stator pole switched reluctance motor using PSPICE and experimental verification,

J. Faiz and J. Raddadi
2002, Journal of Faculty of Engineering, University of Tehran, Iran.

6 Calculation of short-circuit impedance of transformer using electromagnetic energy, **J. Faiz**, H. Mohseni, E. Sabet-Marzooghi and A. Naderian-Jahromo, 2004, Journal of Faculty of Engineering, University of Tehran , Iran.

7 Modeling of mutual coupling effects of phases in 6/4 SRM using finite element method M. Farshad, **J. Faiz**, C. Lucas and H. Ghafori-Faed, 2004, Journal of Faculty of Engineering, University of Tehran, Iran

12. LIST OF THE M.Sc. STUDENTS AND THESES

1 Sh. Honarparvar, Investigation of Design Technique for Commercial Single-phase Induction motor and Design Computer Program based on the Minimum Consumed Iron, University of Tabriz, September 1989.

2 S. Ghasem-zadeh, Introduction on Expert Systems application in Design of Three-phase Squirrel- cage Induction Motor, University of Tabriz, September 1990.

3 A. A. Khamenian, Application of Three-phase Induction Machine as Generator, University of Tabriz, September 1990.

4 A. A. Dadgari, Induction Generator Design, University of Tabriz, October 1990.

5 M. B. B. Sharifian, Optimal Design of Three-phase Squirrel-cage Induction Motor, University of Tabriz, March 1991.

6 K. Banan-Ali-Abbasi, Computerized Design of Step Motors, University of Tabriz, June 1991.

7 R. Iranpour, Steady-state and Transient Thermal Model of Three-phase Induction Motor and its Extension to Switched Reluctance Motor, , University of Tabriz, March 1993.

8 M. A. Azami, Non-linear Control of Brushledd DC Motors, University of Tabriz, Nov.1994.

9 E. Shafagh, Comparative Study of Different Switched Reluctance Motors with Three-phase Induction Motor, University of Tabriz, March 1995.

10 H. Zamani, Design and Performance Prediction of Low-power Single-phase Switched Reluctance Motor, University of Tabriz, March 1995.

11 H. Barati, Extension of Analysis of Induction Motor Drives with Energy Slip Recovery, University of Tabriz, July 1996.

12 M. Ojaghi, Calculation of Equipotential Electric Lines between the wound core and Tank of Distribution and Power Transformers, University of Tabriz, March 1997.

13 M. Ghaneei, Design of Three-phase Induction Machine for Electric Vehicle, , University of Tabriz, March 1997.

14 B. Honarvar Shakibaeei Asl, Extended Kalman Filter Application for Estimation of Synchronous Generators Parameters, University of Tabriz, August 1998.

15 H. Jafari, Design of Three-phase Linear Induction Motors, University of Tabriz, September 1998.

16 J. Raddadi, Dynamic Characteristics Prediction a 12/10 Switched Reluctance Motor Using PSPICE, University of Tehran, August 2000.

17 A. Zeraatparvar, Estimation of Stray Losses in Transformers and Their reduction, University of Tabriz, Nov. 2000.

18 M. R. Salehi, Comparative Study of Switched Reluctance Motors Converters and Their Improvement, University of Tabriz, Feb. 2001.

19 A. Fakheri, Performance of Transformer under Non-linear Loads and Ratings Modification for Optimal Performance, University of Tabriz, March 2001.

20 A. R. Ghaffari-Kashani, Control of Speed and Position of a PMSM Using a Linear adaptive Technique with Time Variant Parameters Based on a Non-linear Neural Network, University of Tehran, Feb. 2002.

21 A. R. Ghahramani, Modeling of Saturation of CT using EMTP and Presenting a Suitable Technique for Compensation of the Secondary Current of Saturated CT, University of Tabriz, May 1998.

22 S. H. Mohseni-Zonoozi, Application of DTC in PMSM, University of Tabriz, March 2001.

23 B. Ganji, Estimation of Precise Core Losses of Switched Reluctance Motor, University of Tehran, September 2002.

24 B. Keyvani-Bourojeni, Optimal Design of IPM Motor for Starter/Alternator in Hybrid Electric

Vehicle, University of Tabriz, September 2002.

25 I. Tabatabaeei-Ardakani, Performance of Three-phase Squirrel-cage Induction Motor in Eccentricity and Other Faults, University of Tehran, March 2003.

26 K. Moayed-zadeh, Design of switched reluctance machine for starter/alternator of hybrid electric vehicle, University of Tehran, May 2003.

27 H. Ebrahimpour, Unbalnced three-phase voltage and its effect on the performance of a three-phase induction motor, University of Tehran, September 2003.

28 M. Ahmadi, Fault dignosis in a brushless PM motor and control of motor for fault tolerance, University of Tehran, September 2004.

29 R. Fazaei, Evaluation of switched reluctance generator for wind energy application, University of Tehran, September 2004.

30 A. Fakhri, Two-dimensional finite element modeling of three-phae transformers, University of Tabriz, September 2004.

31 A. H. Pouramini, Virtual Motor for PWM, University of Tehran, September 2005.

32 S. Lotfifard, Study of switching transients on power system components, University of Tehran May 2006.

33 S. Pakdelian, Analysis of air-gap nonuniformity in SRM, September 2006.

34 M. Ghofrani, Precise calculation of derating of distribution transformers for non-linear loads using FEM, July 2008.

35 M. Rajabi, Design of a PM wind generator and its optimization for energy capture over a wide operating speed range, September 2008.

36 A. Frazmand, Performance of Distribution transformer under non-linear Loads and Unbalanced voltages, September 2009.

37 S. Saffari, Modeling inrush current of transformer based on a complete hysteresis model. September 2009.

38 H. Ebrahimi, Misalignment fault diagnosis in three-phase squirrel cage induction motors, University of Tehran, October 2010.

39 M. Valavi, Eccentricity fault modeling and diagnosis in three-phase squirrel-cage induction motor using 3D finite element method, M.Sc. Thesis, University of Tehran, October 2010.

40 V. Ghorbanian, Broken bar fault diagnosis in three-phase squirrel-cage induction motors under mains voltage and drive supply modes, M.Sc. Thesis, University of Tehran, October 2010.

41 M. Ebrahimi salari, Design and analysis of permanent magnet linear generators, Islamic Azad University, Summer 2009.

42 M. Manoochehri, Performance improvement of permanent magnet linear synchronous motor base on direct force control, Islamic Azad University, Summer Spring 2011.

43 A.M. Takbash, A new method for loss calculation in induction motors under internal faults, University of Tehran, August 2011.

44 A. Hakimi Tehrani, Speed control of wind turbine using DPFC and Fuzzy controllers, Islamic Azad University, Summer 2012.

45 Mahmud Ghasemi Bijan, Diagnosis of eccentricity fault in squirrel-cage induction motor modeled by three-dimensional magnetic equivalent circuit method, University of Tehran, July 2013.

46 Hossein Ehya, Diagnosis of eccentricity fault in wound rotor synchronous generator modeled by finite element method, University of Tehran, Auguat 2013.

47 Milad Ghazizadeh, Analysis of distribution transformer derating under non-linear loads, Sharif University of Technology, July 2014 (jointly supervised with Prof. H. Oraee).

48 Arman Tajdiny, Fault detection of asymmetrical air gap on single side linear induction motor, September 2014.

49 Tohid Asefi, Axial Flux Synchronous Alternator Design with Ferrit Permanent Magnet for Wind Turbine, University of Tehran, May 2015.

40 Mehran Keralvand, Introducing Proper Index for Winding Inter-turn Short Circuit Fault Diagnosis in Wound Rotor Induction Motor Modeled by Finite Element, University of Tehran, September 2015.

41 Ali Dolatian Shirvan, Forces exerted on Electrical Equipment due to Two- and three-phase Short Circuit Faults, University of Tehran, September 2016, (jointly supervised with Prof. H. Mohseni).

42 Hasan Masjedi, Study of switching transient on MV induction motor and Shunt Capacitor's Bank, University of Tehran. December 2016.

43 Milad Soleimani, Fault Diagnosing and Locating in Power and Distribution Transformers, University of Tehran, May 2017.
44 Ehsan Mazaheri-Tehrani, Analysis and Detection of Demagnetization Faults un Brushless DC (BLDC) Motors, University of Tehran, July 2017.
45 Mehdi Heidari, Design of BLDC Motor for Electric Vehicle, University of Tehran, July 2018.
46 Mohamad Sadegh Bozorgian, Eccentrcity Fault Diagnosis in Inverter-fed Permanent Magnet Synchronous Motors, University of Tehran, July 2018.
47 Vahid Rafiee, Robust Design and Anaysis of a Rotating Synchronous Motor with Particular Application to Hybrid Vehicles, University of Tehran, Sept. 2018.
48 Mohammad Fazlalizadeh, Introducing a New Analytical Method for Modeling Vernier Hybrid Machines for Direct Drive Applications, University of Tehran, Sept. 2018.
49 Alireza Nemat-Saberi, "Design and Analysis of a Linear Synchronous Generator with Particular Application to Direct-drive Marine Wave Energy Converters", University of Tehran, 2018.
50 Rahid Sadeghian, Reliability Assesment of Power Transformers in Parallel and stanby Structures (jointly with Dr. F. Aminifar)..
51 Majid Maktobian, Design and optimization of hybrid excitation flux switching motor for electric vehicle with wide constant-power speed range (CPSSR), University of Tehran, October 2021.
52 Saeed Tofighian, Inter-turn fault in PM motors, University of Tehran, 2020
53 Vahid Shiravand, Combining Thermography Methods and Thermal Models to Detect Transformer Cooling System Fault, University of Tehran, October 2021.
54 Amir Hossein Erfani Nik, Design optimization of synchronous reluctance motor, University of Tehran 2020.
55 Ghasemi Parchini, Frequency Response Analysis of Turn-to-Turn Fault in the Transformer, University of Tehran, 2020.
56 Shahin Imanzadeh, Analysis and Detection of Fault in Switched Reluctance Motors, University of Tehran, Sept. 2019.
57 Mohammad Amin Bazrafshan, Analysis and diagnosis of demagnetization fault in permanent magnet synchronous machines under transient mode, University of Tehran, Dec. 2021.
58 Mohammad Hossein Arianborna, Opuimal power point tracking of wind permanent magnet synchronous generator based on intellegent control method, University of Tehran, Sept. 2020.
59 Saeed Sedigh, Thermal analysis of healthy and faulty synchronous generator, University of Tehran, October 2021.
60 Sina Khalesidoost, Thermal Analysis of Permanent Magnet Synchronous Machines Under Fault, University of Tehran, Sept. 2021.

13. LIST OF THE Ph.D. STUDENTS AND THESES

1 Mohammad Bagher Banaee Sharifian, Induction motor design for Electric vehicle, University of Tabriz, 2000.
2 Behzad Siahkolah, Dsign and Optimization of Electronic Tap-changer for Distribution Transformers, University of Tehran, July 2004.
3 Behrooz Rezaeei-Alam, Linear Induction generator, University of Tehran, 2005.
4 Gh. Shahgholian, UPS using multiple filters, Islamic Azad University, Tehran, 2006.
5 B. Ganji, Coupled Electromagnetic and Thermal modeling of SRM using FEM, University of Tehran, 2008.
6 M. Ojaghi, Eccentricity Faults diagnosis for Converter-fed Induction Motors, University of Tehran, 2008.
7 A. R. Ghaffari-Kashani, H-Infinity Control of PMSM, University of Tehran, 2009 (jointly with Prof. M. J. Yazdanpanah).
8 B. M. Ebrahimi, Eccentricity fault diagnosis in Three-phase Surface Mounted PMSMs, University of Tehran, September 2011.
9 M. Babaei, Eccentricity faults Diagnosis in synchronous generators, Islamic Azad University, Tehran, 2010.
10 Mohammad Hoseintabar-Marzebali, Condition Monitoring of Gearbox in Wound Rotor

Induction generator, University of Tehran, January 2017.

11 S. M. M. Moosavi, Eccentricity Fault Diagnosis in DFIG, University of Tehran, 2016.

12 M. R. Hassanzadeh, Fault Diagnoses in Permanent-Magnet Synchronous Generators, Islamic Azad University, 2018.

13 Mahdi Sabouri, Identification and Separation of Mixed Faults in 3-phase squirrel-cage induction motors by taking into account the load variations and the voltage unbabalce, Zanjan University (Jointly with Dr. M.Ojaghi).

14 Morteza Mikhak Byravand, Thermal Modeling of Power Transformer, Lorestan University 2020, (Jointly with Dr. B Rezaeialam).

14. ADMINSTRATIVE ACTIVITIES

- Director of educational affairs, Faculty of Engineering, University of Tabriz, 1976-1983.
- Deputy of University and industry relation office, University of Tabriz, 1980-1983.
- Head of Department of Electrical Engineering, University of Tabriz, 1981.
- Vice-Dean Faculty of Engineering, University of Tabriz, 1982.
- Dean of Faculty of Engineering, University of Tabriz, 1989-1991.
- Dean of Faculty of Engineering, University of Tabriz, 1994-1998.
- Deputy of Graduate Studies, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, 2000-2002.
- Vice-Dean of Graduate Studies, Faculty of Engineering, University of Tehran, 2002-2005.
- Director of Center of Excellence on Applied Electromagnetic Systems, since 2000.
- Vice-Dean of Graduate Studies and education, Faculty of Engineering, University of Tehran, 2005-2009.
- Director of Center on Excellence on Applied Electromagnetic Systems, University of Tehran, Since 2003.

15. PROJECTS

1. Analysis and design of a self-excted induction generator, University of Tabriz.
2. Distribution transformer derating, East Azarbaijan region Electricity Company.
3. Designing and Engineering Know How, Protyping and Testing of low voltage (up to 1000 V) Bus Ducts and Accessories up to 6 kV, Mapna Group, Tehran. Iran.
4. Prototyping a novel controllers for wind turbine system to improve output power quality and requirements for network connection. Iran Electrical Energy development organization, Ministry of Energy.
5. Design, optimization and prototyping a linear Vernier machine with armature winding and separate field for direct-drive applications. Iran National Sciences Foundation.
6. Design and Simulation of Linear Permanent Magnet Generators for Wave Energy to Electrical Energy Conversion in Tranian Seas, University of Tehran.
7. Study of Transformer Energizing and induction motor starting effects on protection algorithms and introducing new methods for improving them, University of Tehran.
8. Effect of Unbalaced supply voltage upon steady-state performance of three-phase squirrel-cag induction motor, University of Tehran.
9. Aplication of magnetic equivalent circuit method in performance analysis of a woud rotor machine, University of Tehran.
10. Design and optimization of linear generator with particularapplication by direct-drive wave energy converters, University of Tehran.