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Professor of Electrical Engineering

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Personal Details

Date of Birth: 1 September 1977

Nationality: Iranian

Gender: Male

Marital Status: Married

Education

- **Ph.D.** in Electrical Engineering, Amirkabir University of Technology, Tehran, Iran, (Jan. 2004- Dec. 2008) (High Honors).
- **M.Sc.** in Electrical Engineering, Amirkabir University of Technology, Tehran, Iran, (Sept. 2001-Jan. 2004).
- **B.Sc.** in Electrical Engineering, Ferdowsi University of Mashhad, Mashhad, Iran, (Sept. 1995- Oct. 2000).

Academic Professions

- **Professor (Full)**, Electrical & Computer Eng. Department, University of Birjand, Birjand, Iran, (June 2021 - present).
- **Associate Professor**, Electrical & Computer Eng. Department, University of Birjand, Birjand, Iran, (Nov. 2014 - June 2021).
- **Assistant Professor**, Electrical & Computer Eng. Department, University of Birjand, Birjand, Iran, (2009-2014).
- **Visitor Scholar**, Faculty of Engineering, Doshisha University, Kyoto, Japan, (Sept. 2007-March 2008).

Research Interests

- Lightning and Switching Transients
- High Voltage Engineering
- High Penetration Renewable Energy Applications

Executive Professions

- **Director of Research Affairs**, University of Birjand, Birjand, Iran, (Sept. 2018- present).
- **Deputy Registrar of the University**, University of Birjand, (Sept. 2017- Sept. 2018).
- **Head of Power System Group**, Electrical & Computer Eng. Department, University of Birjand, Birjand, Iran, (April 2015- Sept. 2017).
- **Director in Charge**, Iranian Journal of Power Engineering, (2013- 2020).

Technical Professions

- **Senior Engineer**, Power System Study Group, **Moshanir** Power Engineering Consultants, Tehran, Iran, (2005-2007).
- **Test Engineer**, Electrical Power Industries Laboratories Company (**EPIL Co.**), Tehran, Iran, (2001-2002).

Administrative of Research/Industrial Projects

1. *Preparing the Isokeraunic Map of Iran*, Niroo Research Institute, **Ministry of Energy**, Iran, (2019-2021).
2. *Design and Implementation of Grounding System of Hybrid Power Plant of University of Birjand*, **University of Birjand**, Iran (2019-2020).
3. *Simulation and Analysis of Transient Overvoltages on Wind Turbines Caused by Lightning Surges*, **University of Birjand**, Iran, (Feb. 2018-Jan. 2019).
4. *Technical and Economic Analysis of Line Arresters Placement on Regions of High Ground Flash Density*, **Khorasan Regional Electricity Company**, Mashhad, Iran, (July 2017-Feb. 2020).
5. *Investigation of Effective Parameters on Grounding Systems in order to Establish the Proper Grounding Method on Different Regions of South Khorasan Province*, **South Khorasan Electric Distribution Co.**, Iran, (March 2017-July 2020).
6. *Providing a Method for Protection of Covered-Conductors Distribution Lines against Lightning Strokes*, **Mashhad Electric Distribution Co.**, Mashhad, Iran, (2016-2017).
7. *Providing an Appropriate Model for Grounding System of Hybrid Power Plant of University of Birjand in order to Protect Against Lightning Surges*, **University of Birjand**, Iran, (Nov. 2016-July 2017).
8. *Analysis of the Grounding Transients Caused by the Lightning Surge Currents*, **University of Birjand**, Iran, (May 2016- June 2017).
9. *Power Plant Placement Studies of 50 MW Larestan Power Plant*, **Moshanir Co.**, Iran.
10. *Power System Studies of 1500 MW Bakhtiyari Power Plant*, **Moshanir Co.**, Iran.
11. *Power System Studies of Dez Power Plant in Khuzestan*, **Moshanir Co.**, Iran.
12. *Power System Studies of 400 kV Kerman Power Plant's Substation*, **Moshanir Co.**, Iran.
13. *Switching Surge Studies on 400 kV Chehelstun Substation*, **Moshanir Co.**, Iran.
14. *Switching Surge Studies on 400 kV Siahbishe Substation*, **Moshanir Co.**, Iran.
15. *Power System Studies of 400 kV Transmission Line of Khorram abad – Shazand*, **Moshanir Co.**, Iran.
16. *Switching Surge Studies on Toos Power Plant*, **Mapna Co.**, Iran.

Publications

A) Books

1. **R. Shariatinasab**, "New Trends in High Voltage Engineering", IntechOpen, London, 2018.
2. **R. Shariatinasab**, B. Vahidi, R. Bank Tavakoli, "*Electromagnetic Transients in Power Systems*", Amirkabir University of Technology Press, 2013 (in Persian).
3. B. Vahidi, R. Bank Tavakoli, J. Alborzi, **R. Shariatinasab**, "*Power system Analysis, (Short-Circuit, Load Flow and Harmonics)*", Vol. I & II, Kerman Regional Electric Company Press, 2007 (in Persian).

B) Book Chapters

1. **R. Shariatinasab**, M. Akbari, and B. Rahmani, "*Application of Wavelet Analysis in Power Systems*", Chapter 11, *Advances in Wavelet Theory and Their Applications in Engineering, Physics and Technology*, ISBN 978-953-51-0494-0, pp. 221-244, IntechOpen, 2012.

C) Journal Papers

1. M. Ghayedi, **R. Shariatinasab**, M. Mirzaie, “AC Flashover Dynamic Model Suggestion and Insulation Level Selection under Fan-Shaped Pollution”, *International Journal of Electrical Power & Energy Systems*, vol. 134, Pages 107438, 2022.
2. N. Aghli, **R. Shariatinasab**, M. Ali Shamsi Nejhada, “Design of the Current and the Voltage Observers for Active-Load-Balancer (ALB) in Model Predictive Control System”, *IEEE Access*, vol. 8, pp. 215426-215437, 2021.
3. M. Ghayedi, **R. Shariatinasab**, M. Mirzaie, “AC Flashover Dynamic Theoretical and Experimental Model under Fan-Shaped and Longitudinal Pollution on Silicone Rubber Insulator”, *IET Science, Measurement & Technology*, vol. 15, no. 9, pp. 719-729, 2021.
4. **R. Shariatinasab**, J. Ghayur Safar, J. Gholinezhad, and Jinliang He, “Analysis of Lightning-Related Stress in Transmission Lines Considering Ionization and Frequency-Dependent Properties of the Soil in Grounding Systems”, *IEEE Transactions on Electromagnetic Compatibility*, vol. 62, no. 6, pp. 2849-2857, 2020.
5. **R. Shariatinasab**, S. Saghafi, M. Khorashadizadeh, and M. Ghayedi, “Probabilistic Assessment of Insulator Failure under Contaminated Conditions”, *IET Science, Measurement & Technology*, vol. 14, no. 5, pp. 557 – 563, 2020.
6. Jalil Ghayur Safar, **R. Shariatinasab**, and Jinliang He, “Comprehensive Modeling of Grounding Electrodes Buried in Ionized Soil Based on MOM-HBM Approach”, *IEEE Transactions on Power Delivery*, vol. 35, no. 3, pp. 1390-1398, 2020.
7. **R. Shariatinasab**, R. Azimi, “A Methodology for Optimal Design of Transmission Lines Protection against Lightning Surges in the Presence of Arresters”, *Advanced Electromagnetics*, vol. 9, no. 1, 2020.
8. R. Zahamti, **R. Shariatinasab**, H. Eliasi, “A Method for the Calculation of Frequency-Dependent Transmission-Line Smooth Transformation Matrix”, *Tabriz Journal of Electrical Eng.*, vol. 49, no. 4, pp. 1665-1679, 2019 (in persian).
9. J. Gholinezhad, **R. Shariatinasab**, “Time Domain Modeling of Tower-Footing Grounding Systems based on Impedance Matrix”, *IEEE Transactions on Power Delivery*, vol. 34, no. 3, pp. 910-918, 2019.
10. **R. Shariatinasab**, M. Rasuli, J. Gholinezhad, “Optimal Estimation of Harmonic Components Using ISFLA”, *Iranian Journal of Electrical and Electronic Engineering*, vol. 15, no. 1, pp. 87-93, 2019.
11. **R. Shariatinasab**, B. Kermani, J. Gholinezhad, “Transient modeling of the wind farms in order to analysis the lightning related overvoltages”, *Renewable Energy*, vol. 132, pp. 1151-1166, 2019.
12. J. Gholinezhad, **R. Shariatinasab**, “Interfacing electromagnetic model of tower-footing impedance with the EMTP software package”, *Electrical Power and Energy Systems*, vol. 105, pp. 394-403, 2019.
13. J. Gholinezhad, **R. Shariatinasab**, K. Sheshyekani, “Extracting time domain frequency dependent model of grounding system in order to analyse the lightning performance of transmission lines”, *Tabriz Journal of Electrical Eng.*, vol. 49, no. 2, summer 2019, pp. 793-804, Summer 2019 (in Persian).
14. **R. Shariatinasab**, J. Gholinezhad, K. Sheshyekani, “Estimation of Energy Stress of Surge Arresters Considering the High Frequency Behavior of Grounding Systems”, *IEEE Transactions on Electromagnetic Compatibility*, vol. 60, no. 4, pp. 917-925, 2018.

15. J. Gholinezhad, **R. Shariatinasab**, K. Sheshyekani, "Probabilistic Assessment of Lightning Related Risk of Transmission Lines Based on Frequency Dependent Modeling of Tower-Footing Grounding System", *Advanced Electromagnetics*, vol. 7, no. 1, pp. 41-50, 2018.
16. **R. Shariatinasab**, J. Gholinezhad, "The Effect of Frequency Dependence Modeling of Grounding System on Lightning-Related Studies of Transmission Lines", *Journal of Applied Research and Technology*, vol. 15, no. 6, pp. 545-554, 2017.
17. **R. Shariatinasab**, B. Kermani, and H. Najafi, "Design of Lightning Protection of Photovoltaic Systems by means of Surge Rods", *Tabriz Journal of Electrical Eng.*, vol. 48, no. 1, Spring 2018, pp. 89-100 (in Persian).
18. **R. Shariatinasab**, B. Kermani, and H. Najafi, "Modelling and Transient Analysis of the Photovoltaic Systems Under Direct and Indirect Lightning Strokes", *Tabriz Journal of Electrical Eng.*, vol. 47, no. 2, Summer 2017, pp. 583-594 (in Persian).
19. **R. Shariatinasab**, P. Tadayyon, and Akihiro Ametani, "A Hybrid Method for Evaluating of Lightning Performance of Overhead Lines Based on Monte Carlo Procedure", *Journal of Electrical Engineering*, vol. 67, no. 4, pp. 246-252, 2016.
20. **R. Shariatinasab**, J. Gholinezhad, K. Sheshyekani, M. R. Alemi, "The Effect of Wide Band Modeling of Tower-Footing Grounding System on the Lightning Performance of Transmission Lines: A Probabilistic Evaluation", *Electric Power Systems research*, vol. 141, pp. 1-10, 2016.
21. **R. Shariatinasab**, P. Tadayyon, "Estimation of Lightning Performance of Overhead Lines Caused by Direct Strokes Based on Monte Carlo Method", *Iranian Journal of Electrical and Electronic Eng.*, vol. 13, no. 1, pp. 85-94, Spring 2016 (in Persian).
22. **R. Shariatinasab**, H. Ahrari, M. Ebadian, "Optimal Conversion of Transmission Lines Using High Phase Order Method Considering Power Quality Indices", *Journal of Soft Computing and Information Technology*, vol. 5, no. 4, pp. 54-65, winter 2017 (in Persian).
23. **R. Shariatinasab**, A. Salari, "Optimization of ZnO Microvaristor Layers in Arrester's Housing in order to Uniform Electric Field Distribution", *Tabriz Journal of Electrical Eng.*, vol. 45, no. 13, pp. 47-54, Dec. 2015 (in Persian).
24. M. Haghshenas, M. Ebadian, **R. Shariatinasab**, "Autonomous Control of Inverter-Interfaced Distributed Generation Units for Power Quality Enhancement in Islanded MicroGrids", *International Journal of Mechatronics, Electrical and Computer Technology*, vol. 4, no. 10, pp. 1247-1271, Jan, 2014.
25. **R. Shariatinasab**, J. Ghayour Saffar, M. Akafi, "Development of an ANFIS Based Meta-Model for Estimating Lightning Related Failures in Polluted Environments", *IET Science, Measurement & Technology*, vol. 8, no. 4, pp. 187 – 195, July 2014.
26. **R. Shariatinasab**, Farid Ajriand, H. Daman-Khorshid, "Probabilistic evaluation of failure risk of transmission line surge arresters caused by lightning flash", *IET Gener. Transm. Distrib.*, vol. 8, no. 2, pp. 193 – 202, Feb. 2014.
27. **R. Shariatinasab**, Jalil Ghayur Safar, and H. Falaghi, "Optimisation of arrester location in risk assessment in distribution network", *IET Gener. Transm. Distrib.*, vol. 8, no. 1, pp. 151 – 159, Jan. 2014.
28. **R. Shariatinasab**, M. Akafi M, and M. Farshad, "Estimation of Switching Overvoltages on Transmission Lines Using Neuro-Fuzzy Method", *Intelligent Systems in Electrical Engineering*, vol. 3, no. 3, pp. 55-66, Dec. 2012 (in Persian).

29. M. R. Aghaebrahimi, M. Ghayedi, **R. Shariatinasab** and R. Gholami, "A More Uniform Electric Field Distribution on Surge Arresters through the Optimal Design of Spacer and Fiber Glass Layer", *Research Journal of Applied Sciences, Engineering and Technology*, vol. 5, no. 13, pp. 3604-3609, April 2013.
30. A. Shafaei, A. Gholami, and **R. Shariatinasab**, "Probabilistic Evaluation of Lightning Performance of Overhead Transmission Lines with Considering Non-Vertical Strokes", *Scientia Iranica*, vol. 19, no. 3, PP. 812-819, June 2012.
31. **R. Shariatinasab** and M. Akbari, "Harmonic Analysis of Power Systems in order to Network Conversion", *International Review on Modelling and Simulations*, vol. 4, no. 6, pp. 3125-3134, Dec. 2011.
32. **R. Shariatinasab**, B. Vahidi, S. Hossein Hosseinian, A. Ametani, "Application of ANN and genetic algorithm for evaluation the optimum location of arresters on power networks due to the switching overvoltages", *Journal of Energy*, vol. 60, 2011.
33. **R. Shariatinasab**, B. Vahidi, S. H. Hosseinian, and A. Ametani, "Probabilistic Evaluation of Optimal Location of Surge Arresters on EHV and UHV Networks due to Switching and Lightning Surges", *IEEE Transactions on Power Delivery*, vol. 24, no. 4, pp. 1903-1911, Oct. 2009.
34. B. Vahidi, **R. Shariatinasab**, J. Sh. Moghani, "Three Dimensional Analysis of ZnO Surge Arresters", *International Review of Electrical Engineering*, vol. 4, no. 4, pp. 642-647, Aug. 2009.
35. **R. Shariatinasab**, B. Vahidi, and S. H. Hosseinian, "Statistical Evaluation of Lightning Related Failures for the Optimal Location of Surge Arresters on the Power Networks", *IET Gener. Transm. Distrib.*, vol. 3, no. 2, pp. 129-144, 2009.
36. **R. Shariatinasab**, B. Vahidi, S. H. Hosseinian, and A. Ametani, "Optimization of Surge Arrester's Location on EHV and UHV Power Networks Using Simulation Optimization Method", *IEEEJ Trans. Power & Energy*, vol. 128, no.12, pp. 1465-1472, Dec. 2008.

D) Conferences

1. S. Shirmohammadi, **R. Shariatinasab**, "Overvoltage Analysis due to Direct Lightning Strikes in Wind Farm Cable Network", 8th Iranian Conf. on Renewable Energies and Distributed Generation (ICREDG), Birjand, Iran, 15-16 March, 2021 (in Persian).
2. **R. Shariatinasab**, R. Hosseini, "Analysis of Induced Lightning Overvoltages in Overhead Distribution Networks Based on New Hybrid Method in EMTP-RV, 27th Iranian Conference on Electrical Engineering (ICEE), University of Yazd, Yazd, Iran, 30 April - 2 May, 2019 (in Persian).
3. R. Hosseini, **R. Shariatinasab**, "A New Tool for the Calculation of Lightning Induced Overvoltages on Different Parts of Distribution Networks Using EMTP-RV, 24th Electric Power Distribution Conference (EPDC), Khorramabad, Iran, June 2019 (in Persian).
4. **R. Shariatinasab**, S. Saghafi, "Probabilistic Evaluation of Surface Discharge of Insulators under Contamination", 26th Iranian Conference on Electrical Engineering (ICEE), Sajjad University of Technology, Mashhad, Iran, 8-10 May, 2018 (in Persian).
5. **R. Shariatinasab**, J. Ghayur, N. Aghli, A. Ashrafzadeh, "Protection of Distribution Networks with Covered Conductors Against Lightning Strokes", 23th Electric Power Distribution Conference (EPDC), Zahedan, Iran, 28-29 May, 2018 (in Persian).
6. **R. Shariatinasab**, R. Zahmati, "Calculating of Return Ground Impedance in Underground Cables, taking into account the Dependence of Soil Electrical Parameters on Frequency", 32th International Power System Conference (PSC), Tehran, Iran, 23-25 Oct., 2017 (in Persian).
7. B. Kermani, and **R. Shariatinasab**, "The Effect of Grounding System in Microgrids on Transient Overvoltages Caused by Lightning Strokes", 5th Iranian Conf. on Renewable Energies and Distributed Generation (ICREDG), Rasht, Iran, 08-09 March, 2017 (in Persian).

8. E. Monfared, **R. Shariatinasab**, and M. Farshad, "Transient Analysis of Hybrid Microgrid in Islanded Mode in Presence of Energy Storages", 5th Iranian Conf. on Renewable Energies and Distributed Generation (**ICREDG**), Rasht, Iran, 08-09 March, 2017 (in Persian).
9. M. Javadi, A. Saberi, and **R. Shariatinasab**, "Recovery of Coordination of Protective Devices in Distribution Network Using FCL", 5th Regional Conference on Electricity Distribution (**CIRED**), Tehran, Iran, 17-18 Jan., 2017 (in Persian).
10. E. Monfared, M. Farshad, **R. Shariatinasab**, and M. Kermani, "Improvement the Recovery Time in Transient Stability in Islanded Microgrid Using Energy Storages", 5th Regional Conference on Electricity Distribution (**CIRED**), Tehran, Iran, 17-18 Jan., 2017 (in Persian).
11. **R. Shariatinasab**, B. Kermani, and H.R. Najafi, "Frequency Dependence Modelling of Photovoltaic Systems in order to Analyse Lightning Transients", 31th International Power System Conference (**PSC**), Tehran, Iran, 24-26 Oct., 2016 (in Persian).
12. M. Haghshenas, M. Ebadian, and **R. Shariatinasab**, "A Distributed Secondary Control in Islanded Microgrids for Voltage Harmonics Compensation and Power Quality Improvement", 31th International Power System Conference (**PSC**), Tehran, Iran, 24-26 Oct., 2016 (in Persian).
13. M. Javadi, A. Saberi, and **R. Shariatinasab**, "Optimum Coordination of Reclosur-Fuses with DGs Using Fault Current Limiters", 31th International Power System Conference (**PSC**), Tehran, Iran, 24-26 Oct., 2016 (in Persian).
14. J. Gholinezhad, **R. Shariatinasab**, K. Sheshyekani, M. Alemi, "The Effect of High Frequency Model of Tower-Footing Grounding Systems on the Back Flashover Rate of Transmission lines", 33rd International Conf. on Lightning Protection (**ICLP**), Estoril, Portugal, 25-30 September, 2016.
15. **R. Shariatinasab**, B. Kermani, H.R. Najafi, "Analysis of Lightning Strokes on Photovoltaic Systems", 24th Iranian Conference on Electrical Engineering (**ICEE**), Shiraz, Iran, 10-12 May, 2016 (in Persian).
16. S. Igder, **R. Shariatinasab**, B. Vahidi, "Insulation Failure of Transmission Lines Considering Corona Effect", 30th International Power System Conference (**PSC**), Tehran, Iran, 23-25 Nov., 2015 (in Persian).
17. J. Gholinejhad, **R. Shariatinasab**, "Estimation of Back Flashover Rate Based on Monte Carlo Method", 30th International Power System Conference (**PSC**), Tehran, Iran, 23-25 Nov., 2015 (in Persian).
18. **R. Shariatinasab**, H. Asadi, "Analysis of Lightning Overvoltages on LV Power Networks Caused by Coupling Between MV and LV", 30th International Power System Conference (**PSC**), Tehran, Iran, 23-25 Nov., 2015 (in Persian).
19. B. Kermani, Z. Samadi Moghaddam, **R. Shariatinasab**, "Analysis of Novel Approaches Proposed for Protection of GIS Substations Against Lightning Surges", 30th International Power System Conference (**PSC**), Tehran, Iran, 23-25 Nov., 2015 (in Persian).
20. B. Kermani, **R. Shariatinasab**, "Simulation of Lightning Protectin of Wind Farms in EMTP-RV", 30th International Power System Conference (**PSC**), Tehran, Iran, 23-25 Nov., 2015 (in Persian).
21. B. Kermani, M. Hashemi, **R. Shariatinasab**, "Back-Flow Surge Analysis of Wind Farms Caused by Lightning Surges", National Conf. on Technology, Energy & Data on Elec. and Comp. Eng., Kermanshah, Iran, 30-31 May, 2015 (in Persian).
22. **R. Shariatinasab**, H. Asadi, "Estimation of Induced Overvoltages Caused by Lightning Using a Hybrid Method based on Monte Carlo Simulation", National Conf. on Technology, Energy & Data on Elec. and Comp. Eng., Kermanshah, Iran, 30-31 May, 2015 (in Persian).
23. H. Asadi, **R. Shariatinasab**, M. Rasuli, "Lightning Performcance of LV power Networks due to the Lightning strokes to MV Networks", 1st Inter. Conf. on Elec. Eng. and Comp. Science, Tehran, Iran, 3 Sept., 2015 (in Persian).
24. **R. Shariatinasab**, H. Najafi, Z. Ejtemaei, "Distribution of Transient Overvoltages on Transformer's Winding", 20th Electric Power Distribution Conference (**EPDC**), Zahedan, Iran, 28-29 April, 2015 (in Persian).
25. **R. Shariatinasab**, H. Najafi, Z. Ejtemaei, "The Impact of Reactive Power in the Power System Reliability in the presence of PVs", 20th Electric Power Distribution Conference (**EPDC**), Zahedan, Iran, 28-29 April, 2015 (in Persian).

26. B. Kermani, **R. Shariatinasab**, H. R. Najafi, "Investigation of Lightning Strokes on Grid Connected Photovoltaic Systems", Inter. Conf. in New Research of Elec. Eng. And Comp. Science, Tehran, Iran, 19 Sept., 2015 (in Persian).
27. B. Kermani, **R. Shariatinasab**, "Analysis of Lightning Overvoltages on Wind Turbine in EMTP-RV Environment", 2nd National Conf. of Management of Renewable Energies, Iran, Aug. 13, 2015 (in Persian).
28. Morteza Haghshenas, **Reza Sariatinasab**, S. H. Tabatabaei, "Voltage Harmonic Compensation in an Islanded Microgrid Based on Autonomous Control of Photovoltaic Systems", 2nd International Conference and Exhibition on Solar Energy, Tehran, Iran, 30-31 Aug., 2015 (in Persian).
29. Morteza Haghshenas, **Reza Sariatinasab**, Mahmoud Ebadian, "Photovoltaic Generation System control Strategy for Load Unbalance Compensation in Microgrids", 2nd International Conference and Exhibition on Solar Energy, Tehran, Iran, 30-31 Aug., 2015.
30. M. Haghshenas, M. Ebadian, **R. Shariatinasab**, H. Falaghi, "Control of Photovoltaic Systems for Power Quality Enhancement in Islanded Microgrids based on Multi-Objective HMBO Method", 2nd International and Exhibition on Solar Energy, Tehran, Iran, 30-31 Aug., 2015 (in Persian).
31. M. Haghshenas, M. Ebadian, **R. Shariatinasab**, S. H. Tabatabaei, "Secondary Control of Microgrids for Power Quality Improvement in Islanded Mode of Operation", 3rd Regional International Conference on Electricity Distribution (**CIRED**), Tehran, Iran, 13-15 Jan., 2015 (in Persian).
32. S. Igder, **R. Shariatinasab**, B. Vahidi, "Lightning Performance of Transmission Lines Considering the Corona Effect", 29th International Power System Conference (**PSC**), Tehran, Iran, 27-29 Oct., 2014 (in Persian).
33. M. Rasuli, **R. Shariatinasab**, "Probabilistic Evaluation of Lightning Performance Based on Monte Carlo Simulation and Novel Multi Level EGM of Transmission Lines", 29th International Power System Conference (**PSC**), Tehran, Iran, 27-29 Oct., 2014 (in Persian).
34. M. Rasuli, **R. Shariatinasab**, "A Novel EGM of Transmission Lines in order to Determine the Termination Point of Impact of Non-vertical Lightning Strokes on Lines Equipped with the Shield Wire", 29th International Power System Conference (**PSC**), Tehran, Iran, 27-29 Oct., 2014 (in Persian).
35. M. Rasuli, R. Khadem, **R. Shariatinasab**, "Optimal Estimation of Harmonic Components by ISFLA algorithm in order to Improve Power Quality", 19th Electric Power Distribution Conference (**EPDC**), Tehran, Iran, 6-7 May, 2013 (in Persian).
36. M. Rasuli, V. Daliri Nasab, O. Khosrojerdi, **R. Shariatinasab**, "Two Proposed Methods in order to Prevent the Axial Bending of Generators Under Fault Conditions", 6th Iranian Conf. of Electrical and Electronic Eng., (**ICEEE**), Gonabad, Iran, 19-21 Aug., 2014 (in Persian).
37. M. Ebadian, M. Haghshenas, M. Hajiabayi, **R. Shariatinasab**, "Utilization of Photovoltaic System as an Energy Source of DSTATCOM to Improve Power Quality in an Autonomous Microgrid", 1st Inter. Conf. and Exhibition on Solar Energy, Tehran, Iran, 19-20 May 2014 (in Persian).
38. M. Haghshenas, M. Hajiabayi, M. Ebadian, **R. Shariatinasab**, "Optimal Control of Photovoltaic Systems Based on IABC Algorithm to Improve Power Quality and Transient Stability in an Independent Sub Grid", 1st Inter. Conf. and Exhibition on Solar Energy, Tehran, Iran, 19-20 May 2014 (in Persian).
39. M. Haghshenas, M. Hajiabayi, M. Ebadian, **R. Shariatinasab**, "Improvement of Power Quality in Photovoltaic Systems Based on IABC Algorithm", 6th Electric Power Generation Conference and Exhibition, Tehran, Iran, 27-28 Jan., 2014 (in Persian).
40. M. Akafi, **R. Shariatinasab**, "Implementation of Shunt Reactor in EMTP/ATP Draw in order to Risk Assessment of Transmission Lines", 28th International Power System Conference (**PSC**), Tehran, Iran, 5-7 Oct., 2013 (in Persian).
41. **R. Shariatinasab**, A. Salari, A. Nemat Dust, M.R. Aghaebrahimi, "Injection of ZnO Microvaristors in Arrester's Housing in order Uniform Field Distribution", 28th International Power System Conference (**PSC**), Tehran, Iran, 5-7 Oct., 2013 (in Persian).
42. **R. Shariatinasab**, R. Azimi, "Lightning Performance of Transmission Lines in Polluted Environment", 28th International Power System Conference (**PSC**), Tehran, Iran, 5-7 Oct., 2013 (in Persian).

43. M. Talebi, R. Ghanizadeh, M. Ebadian, **R. Shariatinasab**, "A Novel Approach for Power Quality Improvement under Unbalanced/Non-Linear Loading by means of UPQC", 28th International Power System Conference (**PSC**), Tehran, Iran, 5-7 Oct., 2013 (in Persian).
44. M. Akafi, J. Saheb Kar, M.A. Shamsi Nejhadd, **R. Shariatinasab**, "Speed Control of Induction Motors with Energy Restoring", 1st Conf. of Iranian Energy Association, Tehran, Iran, 8-9 Oct. 2013 (in Persian).
45. M. Akafi, **R. Shariatinasab**, "Implementation of Switch Synchron Relay in EMTP/ATP Draw in order to Study the Overvoltages Caused by Switching Operation", 21th Iranian Conference on Electrical Engineering (**ICEE**), Mashhad, Iran, 14-16 May, 2013 (in Persian).
46. **R. Shariatinasab**, A. Salari, M. Nemat Dust, M. Ghaedi, "Injection of Optimzaed Layer of ZnO Microvaristors in ordert to Uniform Electric Field Distribution Along Arresters", 18th Electric Power Distribution Conference (**EPDC**), Kermanshah, Iran, 2-3 May, 2013 (in Persian).
47. H.Ahrari, **R. Shariatinasab**, M. Ebadian, "Optimal Conversion of Transmission Lines in Presence of Non-linear Loads", 27th International Power System Conference (**PSC**), Tehran, Iran, 12-14 Nov., 2012 (in Persian).
48. S. Hakimi, A. Zeynal Zadeh, **R. Shariatinasab**, H. Ghelich Khani, "Risk of Failure Assessment of Arresters by ANN", 27th International Power System Conference (**PSC**), Tehran, Iran, 12-14 Nov., 2012 (in Persian).
49. P. Tadayon, H. Ahrari, M. Ramezani, **R. Shariatinasab**, "Probabilistic Power Flow of DG Connected Distribution Networks by Data Clustering", 27th International Power System Conference (**PSC**), Tehran, Iran, 12-14 Nov., 2012 (in Persian).
50. J. Ghayour, **R. Shariatinasab**, P. Tadayyon, H. Bagherzadeh, "Probabilistic Calculation of Failure Risk of Distribution Networks by Monte Carlo Simulation", 27th International Power System Conference (**PSC**), Tehran, Iran, 12-14 Nov., 2012 (in Persian).
51. A. Hosseinabadi, **R. Shariatinasab**, "Investigation of Power Swing Phenomenon Considering Its Effects on Protection of Synchronous Generators", 15th Iranian Student Conference on Electrical Engineering (**ISCEE**), Kashan, Iran, 28 Aug., 2012 (in Persian).
52. M. Akafi, **R. Shariatinasab**, M. Farshad, "Estimation of Switching Overvoltages Related Risk of Failure Considering Altitude Profile", 15th Iranian Student Conference on Electrical Engineering (**ISCEE**), Kashan, Iran, 28 Aug., 2012 (in Persian).
53. **R. Shariatinasab**, M. Akafi and M. Ramezani, "A New Method for Islanding Detection of DGs Based on Current THD and Voltage Unbalance Factor", 17th Electric Power Distribution network Conference (**EPDC**), Tehran, Iran, 1-2 May, 2012 (in Persian).
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