

PUBLICATIONS

(i) DETAILS OF THE BOOK PUBLICATIONS

(A) Books authored/co-authored/co-edited

1. P. Sanjeevikumar, C. Sharmeela, Jens Bo Holm-Nielsen and P. Sivaraman, "Power Quality in Modern Power Systems", Elsevier publication, Academic Press, 25th November 2020, Paperback ISBN: 9780128233467, eBook ISBN: 9780128234464, pg. 1 – 352.
2. C. Sharmeela, P. Sivaraman, P. Sanjeevikumar, and Jens Bo Holm-Nielsen, "Micro grid Technologies", Scrivener-Wiley publication, December 2020, ISBN: 978-1- 119-71079-0, pg. 1- 350.
3. C. Sharmeela, P. Sivaraman and R. Mahendran, "Power System Analysis", Scrivener-Wiley publication, 2020 (in progress).
4. P. Sivaraman, C. Sharmeela, A.Thaiyal Nayagi and R. Mahendran," Basic Electrical and Instrumentation Engineering", Scrivener-Wiley publication, 2020, ISBN: 1119764467, 9781119764465, pg. 1-360.

(B) Book Chapters authored/co-authored

1. P. Sivaraman and C. Sharmeela, Chapter – 1: "IoT based Battery Management System for Hybrid Electric Vehicle", Artificial Intelligent Techniques for Electric and Hybrid Electric Vehicles, Scrivener-Wiley publication, ISBN: 978-1-119- 68190-8, September 2020.
2. P. Sivaraman and C. Sharmeela, Chapter – 10: "Solar Micro-Inverter", Handbook of Research on Recent Developments in Electrical and Mechanical Engineering, IGI Global Publication, pp.283-303, Sept 2019, pg. 553, ISBN13: 9781799801177, ISBN10: 1799801179, EISBN13: 9781799801184, DOI: 10.4018/978-1-7998-0117-7.
3. P. Sivaraman and C. Sharmeela, Chapter – 1: "Introduction to Electric Distribution System", Handbook of Research on New Solutions and Technologies in Electrical Distribution Networks, IGI Global Publication, Dec 2019, pg. 439, ISBN13: 9781799812302, ISBN10: 1799812308, EISBN13: 9781799812326, ISBN13 Soft cover: 9781799812319.
4. P. Sivaraman and C. Sharmeela, Chapter – 2: "Existing Issues associated with Electric Distribution System", Handbook of Research on New Solutions and Technologies in Electrical Distribution Networks, IGI Global Publication, Dec 2019, pg. 439, ISBN13: 9781799812302, ISBN10: 1799812308, EISBN13: 9781799812326, ISBN13 Soft cover: 9781799812319.
5. P. Sivaraman, C. Sharmeela and S. Logesh Kumar, "Charging Infrastructure Layout and Planning for Plug-in-Electric Vehicles", in the book titled: "Cable Based and Wireless Charging Systems for Electric Vehicles: Technology, Control, Management & Grid Integration" to be published by The Institution of Engineering and Technology (IET), United Kingdom, 2020.

6. P. Sivaraman and C. Sharmeela," "Chapter – 1: Power Quality and its Characteristics", "Chapter – 2: Power System Harmonics" and "Chapter – 5: Power Quality Problems associated with Electric Vehicle Charging Infrastructure", "Power quality in modern power systems", Elsevier publication, November 2020, ISBN: 9780128233467, 012823346X, pg. 1 – 310.
7. P. Sivaraman and C. Sharmeela," "Chapter – 7: Load Flow Analysis for Microgrid","Micro grid Technologies", Scrivener-Wiley publication, December 2020,ISBN: 978-1-119-71079-0, pg. 1- 350, ISBN 9781119710790.
8. C. Sharmeela and R.Sandhya, "Chapter – 18: Microgrid Communications", "Micro grid Technologies", Scrivener-Wiley publication, December 2020, ISBN: 978-1- 119-71079-0, pg. 1- 350, ISBN 9781119710790.

(C) Online Instructor Resources/ Repair Manual/ Laboratory Manual Co-authored/Peer-review of Industry-Led Course

1. C.Sharmeela and M.R.Swaminathan, et.al, "Repair of Auto Electrical and Electronics Systems – SECTOR : Automotive Repair", Directorate General of Training, Ministry of Skill Development and Entrepreneurship, GOI, National Instructional Media Institute, P.B.3142, CTI Campus, Guindy Industrial Estate, Guindy, Chennai – 32, January 2009.
2. Co-authored the **Course material on Solar Photovoltaic's – Practical Sessions** for the UGC Sponsored Awareness and Training Program on Solar Photovoltaic's organized by the Institute for Energy Studies, Anna University, Chennai, June 2014.
3. Prepared "**online instructor resources**" such as PowerPoint slides for all the chapters in **Electric Circuits and Electronic Devices** (Anna Edition), 1/e, Oct 2010, Author(s): **David A. Bell**, Oxford University Press, New Delhi, India. (Duration: Oct 2011 – Feb 2012).
4. Peer-Reviewer for the L&T EduTech's upcoming industry-led course on Engineering for MV Substation Course (upto 33kV), November 2020, **(Ongoing)**

(ii) PUBLISHED IN PEER REVIEWED INDEXED JOURNALS

1. S.A.Grace, D.MohanLal and C.Sharmeela, "Demand Controlled Systems with fuzzy controllers to maintain indoor air quality - An Energy Saving Approach, International Journal of Ventilation, Volume 3, No 1, pp.79-86, January 2004, ISSN : 1473-3315, (IF: 0.86)
2. C.Sharmeela, M.R.Mohan and G.Uma, "A Novel detection and classification algorithm for power quality disturbances using wavelets", American Journal of Applied Sciences, Volume 3 Issue 10, pp. 2049-2053, March 2006, ISSN : 1546- 9239,(IF: 0.64)
3. C.Sharmeela, M.R.Mohan, G.Uma and J. Baskaran, "Fuzzy Logic Controller based three phase shunt active filter for line harmonics reduction", Journal of Computer Science, Volume 3, Issue 2, pp.76-80, March 2007, ISSN : 1549-3636, (IF: 0.69)
4. C.Sharmeela and M.R.Mohan, "Voltage Sag and Swell Mitigation using Multi – Level Inverter based Custom Power Conditioners", International Journal of Power and Energy Systems, ACTA PRESS, Volume 28, No 4, pp. 384 - 393, November 2008, ISSN : 1078-3466, (IF: 0.29)
5. S. Hari, C. Sharmeela and M. Venkata Ramanan, "Design, development and simulation of A universal harmonic filter circuit for Improving power quality in sugar mills", International Journal of Integrated Energy Systems, Vol. 1, No. 2, pp. 175-181, July-December 2009.

6. N.SenthilMurugan, C.Sharmeela, and K.Saravanan, "Design of soft switching converter with Digital Signal Processor based MPPT for Solar Hybrid Applications", *ACEEE International Journal on Control System and Instrumentation*, Vol.1, No.1, pp. 12-15, July 2010, ISSN: 2158-0006(IF: Pending-2014)
7. N.SenthilMurugan, C.Sharmeela, and K.Saravanan, "Modeling of Photo Voltaic Arrays with Soft Switching Converter Design and Simulation for Maximum Power Point Tracking", *International Journal of Computer Applications*, Vol.8, No.13, pp. 43-49, October 2010.(IF: 0.835)
8. E. Kaliappan, A.V. Sayee Krishna and C. Sharmeela, "Speed Control of PMBLDC Motor using Fuzzy Logic Controller", *International Journal of Applied Engineering Research*, Vol.5, No.15, 2010, pp. 2609-2616, ISSN: 0973-4562 (IF: 0.14)
9. Esakkiappan Kaliappan and C.Sharmeela, "Direct Torque Control of PMBLDC Motor using Hybrid (GA and Fuzzy Logic) Controller", *Journal of Advances in Information Technology*, Volume 1, Number 4, pp. 163-167, November 2010.
10. K.Elango, S.R.Paranjothi and C.Sharmeela, "Transmission Congestion Management in Restructured Power Systems by Generation Rescheduling and Load Shedding using Rule Based OPF", *European Journal of Scientific Research*, Vol.57, No.3, 2011, pp.380-390,ISSN : 1450-216X,(IF: 0.710)
11. G.Gayathri, Neena Ramesh, C.Sharmeela, "Power flow control in the grid using controllable network transformer – A smart device to improve the system reliability", *International Journal of Current Research*, Vol. 33, Issue, 4, pp.245- 249, April, 2011, ISSN 1003 2169 (GIF: 0.455 and SJIF: 3.845)
12. R.Thenmozhi, C.Sharmeela, P.Natarajan and R.Velraj, "Transient Thermal Management Comparison of a Microprocessor Using PCMs in Various Configurations", *Journal of Thermal Science*, **Springer**, Vol.20, No.6, November 2011, pp.516-520, **(IF: 1.460)**
13. N.Amuthan, P.Melba Mary, P.Subburaj and C. Sharmeela, "Ride Through and Direct Model Reference Adaptive Internal Modal Controller with Rule based Adjustment Mechanism for DFIG Wind Farms", *International Journal of Sustainable Energy*, **Taylor & Francis**, Volume 31, Issue 4, pp.229-250, May 2011, ISSN 1478 6451 **(IF: 1.33)**
14. V. Punitha, C.Sharmeela, G. Kumaresan and Krishna Rao Vutukuru, "Comparative Study of Converters using MPPT Algorithms for a Stand Alone Solar PV System", *CiiT International Journal of Programmable Device Circuits and Systems*, Vol.4, No.9, 2012, pp.466-469, ISSN: 0974-973x (IF: 0.492)

15. M. Ilayabharathi, G.Kumaresan and C.Sharmeela, "Design and Implementation of single axis solar tracking system", CiiT International Journal of Programmable Device Circuits and Systems, Vol.4, No.9, 2012, pp.470-473, ISSN: 0974- 973x(IF: 0.492)
16. SmileeMathuram and C.Sharmeela, "A framework for zig-bee based power line monitoring system", International Journal of Embedded Systems and Computer Engineering, Vol.4, No.1, 2012, pp.29-42.
17. G.P.Ramesh and C.Sharmeela,"Design and Implementation of DC/DC based zero voltage switching QRC LUO converter", International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Vol.2, No.7, July, 2012, pp.377-380.(IF: 2.080)
18. G.Muralikrishnan and C.Sharmeela, "Design Strategy for Optimum Rating Selection of Interline D-STATCOM", International Journal of Engineering and Science Invention (IJESI), Vol.2, No.3, March, 2013, pp.12-17. (IF: 1.786)
19. R.Thamaraiselvi, P.Ramesh, J.Baskaran, C.Sharmeela and G.Kumaresan, " A Survey of PV based Solid State Transformer for storage and Distribution Applications", International Journal of Scientific and Engineering Research, Vol. 4, Issue 12, pp. 137 – 141, December 2013, ISSN 2229-5518.
20. S.V.Saravanan, C.Sharmeela and ChandanMajumdar, "A personalized wireless sensor network communication model for computerization of electric power distribution", IOSR Journal of Electrical and Electronics Engineering, Vol.7, Issue No.2, July - August 2013, pp.41-44, ISSN: 2278-1676.(IF: 1.452)
21. S.V.Saravanan, C.Sharmeela and ChandanMajumdar, "Customized monitoring and assessment of circuit-breaker operations in different applications", International Journal of Engineering Inventions, Vol.3, Issue No.1, August 2013, pp.08-12, ISSN: 2319-6491 (IF: 1.212)
22. J.Lokesh, U.Rahamathunnisa, K.Sudhakar and C.Sharmeela, "A multi task booting technique over sector based structure in wireless sensor network", International Journal of Engineering and Technology (IJET), pp. 3489- 3494, Vol. 5, No.4, Aug-Sep 2013, ISSN: 0975-4024, (IF: 0.62)
23. SmileeMathuram and C.Sharmeela, "zig-bee based underground cable monitoring system", International Journal of Soft Computing, Vol.8, No.6, Mar 2013, pp.424-434, ISSN: 1816-9503, (IF: 0.21)
24. N.Gunavardhini, C.Sharmeela and M.Chandrasekaran, "A Study on Power Quality Compensation in Railway Traction", International Journal of Engineering Research and Applications (IJERA), Vol.10, No.5, 2013, pp.816-820, ISSN: 2248- 9622.(IF: 1.69)

25. N.Rajkumar and C.Sharmeela, "Modeling and simulation of PWM based STATCOM for reactive power control", International Journal of Electrical, Electronics and Computer Systems (IJECS), Vol.2, Issue No.1, January 2014, pp.103-112, ISSN: 2347-2820.
26. K.Mohanadasse, C.Sharmeela and T.D. Sudhakar, "Filters for Power Quality Improvement – A Survey", Australian Journal of Basic and Applied Sciences, Vol.9, Issue No.2, February 2015, pp.81-93, ISSN: 1991-8178. (IF: 0.425)
27. K.Gunalan and C.Sharmeela, "A New Control strategy to Enhance LVRT for Doubly Fed Induction Generator", WSEAS Transactions on Power Systems, Vol.10, 2015, pp 135 – 144, E-ISSN: 2224-350X.
28. P.Marish Kumar, C. Sharmeela, S. Amosedinakaran, "Performance Analysis of Photovoltaic Cell/Panel under different Irradiance based on Single-Diode Model", International Journal of Applied Engineering Research, Research India Publications, India, pp. 5572-5578, ISSN 0973-4562, Volume 10, Number 6, 2015. (Impact factor: 0.14)
29. P.MarishKumar, C. Sharmeela, S. Amosedinakaran, "Simulation of Photovoltaic with Single-Diode Model under Different Temperature levels", International Journal of Applied Engineering Research, Research India Publications, India pp. 23411 – 23416, ISSN 0973-4562 Vol. 10 No.32, 2015. (Impact factor:0.14)
30. P.Marish Kumar, C. Sharmeela, S. Amosedinakaran, "Analysis of Modified MPPT soft computing techniques for photovoltaic pumping system"-Cluster Computing, Springer ISSN: 1386-7857.(Impact factor:2.040)
31. P.Marish Kumar, C. Sharmeela, S. Amosedinakaran, "Design of Ripple Free DC- DC Converter for an Efficient PV based Pumping System Using MPPT Techniques", Pakistan journal of BioTechnology, ISSN: 18121837.(Impact factor:0.6/0.14)
32. T. Santhana Krishnan, C. Sharmeela, "Modeling of Permanent Magnet Synchronous Generator For Wind Energy Conversion System" - International Journal of Combined Research & Development (IJCRD) eISSN:2321- 225X;pISSN:2321-2241, Volume: 3, Issue: 5,pp.122-128, November -2014, IF 0.02
33. T. Santhana Krishnan, C. Sharmeela, "Comparative Analysis of Solar/Wind Energy Fed Quasi Resonant ZVS Boost Converter with motor load", International Journal of Applied Engineering Research, Volume 10, Issue 5, October 2015, pp 4382-4386, UGC Approved Scopus Indexed Journal, ISSN 0973-4562, Research India Publications, India (Impact factor:0.14)

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36. T. Santhana Krishnan, C. Sharmeela, "A New Control Strategy for PMSG Based Wind Energy Conversion System", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering - (Impact Factor: 1.392), ISSN-2278-8875, Volume 5, Issue 8, August 2016, pp-6812-6825, DOI:10.15662/IJAREEIE.2016.0508035, UGC Approved Scopus Indexed Journal.
37. T. Santhana Krishnan, C. Sharmeela, "Performance Analysis of Wind Driven Generators Supplying an Isolated Load", Journal of Computational and Theoretical Nanoscience , Volume 14, Issue 12, October 2017, pp 1-16, UGC Approved Scopus Indexed Journal, DOI:10.1166/JCTN.2017.7050, ISSN 1546- 1955, American Scientific Publishers, USA, (Impact factor:0.22)
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40. K. Saravanan, C.Sharmeela, "Energy Conservation in Paint Circulating Pumps Using Solar Power in Automotive Industries," International Journal of Applied Engineering Research Vol. 10, No. 4, pp. 3746-3750, 2015, ISSN : 0973-4562.
41. K. Saravanan, C.Sharmeela, "A Simple and Cost Effective Perturb and Observe Aided MPPT Algorithm for PV System Under Rapidly Varying Irradiance", Vol. 37, No. 9, 2016 , International Journal of Control Theory and Applications , IJCTA - Listed in UGC journal, ISSN: 0974-5572, International Science Press, Serials Publications Pvt. Ltd., pp. 961-969.

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47. Joseline Metilda A and C. Sharmeela, "Power Quality Improvement for Matrix Converter", International Journal of Applied Engineering Research (IJAER), Research India Publications, 2015, ISSN 0973-4562, Vol.10, No. 40, pp. 30239- 30243, Impact Factor 0.14, UGC Listed.
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51. K. Mohandasse, C. Sharmeela and D. Edison Selvaraj, "An Innovative Solution for the Power Quality Problem in Induction Motor by using Silica and Alumina Nano Fillers Mixed Enamel for the Coatings of the Windings", Journal of Electrical Engineering and Technology, ISSN 1975-0102, Volume 10, No. 4, pp. 1621- 1625, ISSN 1975-0102, (Impact Factor:0.82)

52. Thenmozhi R, Shameela C, Natarajan P and Velraj R, 2015, "An Efficient Bridgeless Isolated Interleaved Zeta Converter for LED Lamp Driver Application", Research Journal of Applied Sciences, Engineering and Technology, Vol. 11, No. 10, pp. 1103-1113, July 2015, ISSN: 2040-7459, (Impact factor :0.654)
53. Thenmozhi R, Shameela C, Natarajan P and Velraj R, 2016, "Isolated AC/DC Offline High Power Factor Single-Switch LED Driver Using Fuzzy Logic Controller", Middle-East Journal of Scientific Research, ISSN 1990-9233, pp. 90-94, (A- II)DOI: 5829/idosi.mejsr.2016.24. RIETMA115, Volume 24, 2016 (Impact factor 0.54/0.36), IDOSI Publications.
54. Thenmozhi R, Shameela C, Natarajan P and Velraj R, June 2016, "Fuzzy Logic Controller Based Bridgeless (BL) Isolated Interleaved Zeta Converter for LED Lamp Driver Application", International Journal of Power Electronics and Drive System (IJPEDS), Vol. 7, Issue 2, pp. 509 – 520, ISSN : 2088 – 8694, Impact Factor:1.49.
55. Thenmozhi R, Shameela C, Natarajan P and Velraj R, 'Zigbee Based Energy Efficient LED Lighting System', Journal of Computational and Theoretical Nanoscience, January 2017, Vol. 14, No. 1, pp. 435 – 440, ISSN : 1546-1955, (Impact Factor:0.22)
56. Thenmozhi R, Shameela C, Natarajan P and Velraj R, 2016, 'Energy efficient high power LED lighting system using Intelligent solar tracking for street light application', International Journal of Emerging Technologies and Applications In Engineering, Technology and Sciences, Vol. 9, No. 1, ISSN : 0974-3588, pp. 68- 72, (Impact Factor: 0.63)
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58. P Murugesan, C. Shameela, V. Rajeshwari, B. Keerthana, S. Pavithra, "Localizing Power Quality Disturbances Using Hilbert Transform in LABVIEW", International Journal of Advanced Research in Management, Architecture, Technology and Engineering, 2017, Vol. 3, No. 14, ISSN: 2454-9762, pp. 25-29, Impact Factor: 1.231
59. P Murugesan, C. Shameela, 2017, "Multi-Class SVM for Monitoring Power Quality Disturbances Using MRA", International journal of Advanced Research in Basic Engineering Science and Technology, Vol. 3, No. 2, ISSN: 2395-695x, pp. 16-26, Impact Factor: 0.3
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63. P.Ramesh, C.Sharmeela, "FLC Based Closed Loop Control of MLI Fed Induction Motor Drive," Journal of Computational and Theoretical Nanoscience, Vol.14, No.3, March 2017, pp.1259-1264, ISSN : 1546 – 1955, IF : 0.22
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65. P.Ramesh, C.Sharmeela, " Nine level Inverter Fed induction motor drive with power factor correction," Asian Journal of Research in Social Sciences and Humanities, Vol. 7, No. 1, January 2017, pp. 1030-1042, ISSN, 2249-7315.
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69. L. Anto Joseph Deeyoko, K.Balaji, S.Iniyan and C.Sharmeela, "Exergy, Economics and Pumping Power Analyses of Flat Plate Solar Water Heater using thermal Performance Enhancer in Absorber Tube", Applied Thermal Engineering, **Elsevier Publications**, 154, pp. 726-737, March 2019, ISSN : 1359 – 4311, **IF : 4.55**

70. K.Gunalan and C.Sharmeela, " Assessment of Low Voltage Ride Through for Doubly Fed Induction Generator based Grid Connected Wind Energy System using Improved Brain Emotional Learning based Intelligent Controller", Journal Of Environmental Protection and Ecology, September 2019, pg. 1912-1922, Vol.20 Issue 4, ISSN: 1311-5065, (Impact Factor:0.74).
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72. R. Sandhya, UmmaHabiba Hyder Ali and C. Sharmeela, "Compact Dual Mode X- band SIW band pass filter with Wide Spurious Suppression using Split Square Ring Slot Resonator", Circuit World, Volume 46, Issue 4, September 2020, pp. 1 – 13, ISSN 0305-6120, DOI 10.1108/CW-08-2019-0094, (Impact Factor : 1.170).
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(iii) INTERNATIONAL/NATIONAL CONFERENCES

1. C.Sharmeela, P.Somasundaram, S.S.Dash, "Internet – Powerful Tool for Continuing Education", National Conference on Impact of Information Technology in Continuing Education", Annamalai University, Chidambaram, India, March 26th -27th, 2002.
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