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List of Book Chapters:

All Authors	Title of the Chapter	Book Editors	Name of the Book	Publishers	Year (2017-18)	ISBN	Page No.
Champa Nandi, Ajay Kumar Chakraborty	Controlling STATCOM by Full Order State Feedback Controller for Stability Improvement	Pawan Kumar, Surjit Singh, Iqbal Ali and Taha Selim Ustun	Handbook of Research on Power and Energy System Optimization	IGI Global Publishers	March, 2018	ISBN: 978152-2539353	PP 227-254
Anulipt Chandan, Vidyasagar Potdar, Champa Nandi	Pricing Mechanisms for Energy Management in Smart Cities	Mahmood.Zai gham (Ed.)	Smart Cities <i>Development and Governance Frameworks</i>	Springer	April, 2018	ISBN 978-3-319-76669-0	PP 71-103

List of referred Journals(UGC approved Listed Journals)

1. S. Paul, M. Datta and C. Nandi. “Controlling SSSC by Full Order State Feedback Controller”, *International Journal of Computer Applications* 151(9):33-39, October 2016, Published by Foundation of Computer Science, New York, USA. (UGC approved journal No: 44570)
2. C.Nandi, A.K.Chakraborty, “Nonlinear Power System analysis with and without STATCOM”, *International Journal of Applied Engineering Research*, ISSN 0973-4562 ,Vol. 10 No.5 (2015) pp. 39793982 (Scopus indexing) (UGC approved journal No: 48285)
3. S.Saha, C.Nandi, “Harmonics Analysis of Power Electronics Loads” *International Journal of Computer Applications* Vol 92(10):32-36, April 2014. Published by Foundation of Computer Science, New York, USA.,10.5120/16046-5228(Impact Factor 0.715) (UGC approved journal No: 44570)
4. C.Nandi,J.R.Pal and T.Sutradhar, “ Voltage Collapse Avoidance by using STATCOM”,*International Journal of Computer Applications* (0975 – 8887) , Volume 70– No.12, pp 36-42,May 2013, FCS(Foundation of Computer Science) New York,USA. (Impact Factor 0.791) (UGC approved journal No: 44570)
5. A.Debnath,C.Nandi , “ Voltage Profile Analysis during Fault with STATCOM”, *International Journal of*

Computer Applications (0975 – 8887) , Volume 72, No.11, pp 16-22, May 2013, FCS(Foundation of Computer Science) New York,,USA(Impact Factor 0.791) (UGC approved journal No: 44570)

6. A.Debnath,C.Nandi ,J.R.Rante “**Stability Enhancement with SVC**”, *International Journal of Computer Applications (0975 – 8887) Volume 71 , No.12, pp 16-20, May 2013, FCS(Foundation of Computer Science) New York,,USA(Impact Factor 0.791) (UGC approved journal No: 44570)*
7. J.R.Pal ,T.Sutradhar and C.Nandi, “**Stability Enhancement with SVC**”, *International Journal of Computer Applications (0975 – 8887), Volume 72, No.5,PP 19- 25, , May 2013, FCS(Foundation of Computer Science)New York,,USA(Impact Factor 0.791) (UGC approved journal No: 44570)*
8. A.Debnath,C.Nandi ,J.R.Rante, “**Voltage Profile Analysis for IEEE 30 Bus System Incorporating with UPFC** “*International Journal of Engineering and Advanced Technology, Volume-2 Issue-4, pp 763-768, April 2013, ISSN: 2249-8958, IJEAT, India(Impact Factor 1.097) (UGC approved journal No: 45431)*
9. C.Nandi and A.Bhowmik ,“**Performance Comparison of UPFC for Smooth Power Flow in Coordination with Dispersed Generator**”, *International Journal of Computer Applications (0975 – 8887) Volume 33– No.5, pp 39-46, November 2011. (impact Factor0.814) (UGC approved journal No: 44570) (UGC approved journal No: 43666)*
10. C.Nandi,S.Deb,M.Debbarma and A.K.Chakraborty,“**Study and Simulation of the SVC and STATCOM effect on Voltage Collapse and Critical Fault Clearing Time**” *IJMO (International Journal of Modelling and Optimization) Vol.2(4): 462-465 ISSN:2010-3697 ,DOI: 10.7763/IJMO.2012.V2.163, August 2012(UGC approved journal No: 43666)*
11. A.K. Chakraborty, S.Majumder, P.K. Chattopadhyay and C.Nandi “**Active Line Flow Control of Power System Network with FACTS Devices of choice using Soft Computing Technique**” ,*IJCA(0975 – 8887), ISBN: 978-93-80864-24-7, Volume 25, No.9, pp. 14-21, July 2011(impact Factor0.814) (UGC approved journal No: 44570)*
12. A.Bhowmik and C.Nandi, “**Implementation of Unified Power Flow Controller (UPFC) for Power Quality Improvement in IEEE 14-Bus System**”, *International Journal of Computer Technology and Applications(IJCTA), ISSN : :2229-6093, vol 2 no -6 ,pp 1889-1896,Nov-Dec 2011,) (UGC approved journal No: 43388)*
13. C.Nandi,T.Deb,S.Dutta and A.K.Chakraborty,“**Modelling and Simulation of Wind Farm with STATCOM in PSCAD/EMTDC Environment** ”, *International Journal of Applied Information Systems (IJAIS) – ISSN : 2249-0868,Volume 1– No.7,pp 16-20, March 2012(UGC approved journal No: 43823)*
14. S.Dutta,T.Deb,C.Nandi and A.K.Chakraborty, “**Modelling and Simulation of Wind Power Plants Framed with Self Excited Induction Generator as well as DFIG and a comparative performance Study thereof in PSCAD/EMTDC Environment**” *International Journal of Electrical Engineering Technology(IJEET) – ISSN 0976-6545(print) ISSN 0976-6553 (online),Vol.- 03,Issue 2,pp 123-139,July-September 2012 (Scopus Indexing) (Impact Factor 3,2031) (UGC approved journal No: 43685)*
15. M.Debbarma,S.Deb and C.Nandi , “**Maximum Photovoltaic Power Tracking Using Perturb And Observe Algorithm in MATLAB/Simulink Environment**”, *International Journal of Electrical Engineering and Technology(IJEET),ISSN 0976-6545(print), ISSN 0976-6553 (online), Vol No -1, pp 58-71,Sep- Oct 2010(Scopus indexing)(Impact Factor 0.431) (UGC approved journal No: 43685)*
16. C.Nandi,S.Deb and M.Debbarma, “**Voltage stability improvement using Static Synchronous Compensator with variable load impedance**” , *International Journal of Electrical Engineering and Technology(IJEET),ISSN 09766545(print),ISSN 0976-6553 (online) , Vol No -1 ,pp 95-104, Sep- Oct 2010(Scopus Indexing) (Impact Factor 0.431) (UGC approved journal No: 43685)*

List of International/National Conference/Seminer

1. Somudeep Bhattacharjee, Champa Nandi, Sushmita Reang, “**Intelligent controller Design for Solar-Wind Hybrid System**” IEEE 3rd International Conference for convergence Technology (12 CT) 2018

2. Somudeep Bhattacharjee, Saima Batool, **Champa Nandi** and Udsanee Pakdeetrakulwong, “**Investigating Electric Vehicle (EV) charging station Locations for Agartala, India**”, 2nd International conference of Multidisciplinary Approach on UN Sustainable Development Goals(UNSDGs), Session of Electrical Engineering and Technology. PP 2-13, 2017
3. C.Nandi ,A.K.Chakraborty “**Voltage Collapse Mitigation by using SVC and Phase-Plane Trajectory Analysis**”, IEEE 11th International Annual Conference INDICON 2014. Puna, 11th - 13th Dec,2014
4. S.Saha, C.Nandi, “**Modelling and Harmonic Analysis of Domestic/Industrial Loads**”, National Seminar on Enaergy Science & Engineering (NSESE-2013), 29-30 Nov, 2013
5. C.Nandi and A.K.Chakraborty, “**Wind Power Plants with VSC Based STATCOM in PSCAD/EMTDC Environment**”, International Conference on Power and Energy Systems (ICPES 2012), November 17-18, 2012,Pune.
6. C.Nandi,S.Deb and M.Debbarma, “**Voltage stability improvement using Static Var Compensator in power system with variable load**”, International Conference on Sunrise Technologies ICOST-2011 13-15 January 2011,Maharashtra.
7. S.Deb M.Debbarma, and C.Nandi, “**Microprocessor based Over current Relay with IDMT, Very Inverse and Extremely Inverse Characteristics**”, International Conference on Sunrise Technologies ICOST-2011 13-15 January 2011,Maharashtra.
8. C.Nandi, S.Deb and M.Debbarma, “**Study and Simulation of the SVC and STATCOM effect on Voltage Collapse and Critical Fault Clearing Time**”, 3rd International Conference of computer Modeling and Simulation(ICCMS-2010),7-9 January 2011,Mumbai.
9. M.Debbarma,S.Deb and C.Nandi, “**Modeling of Photovoltaic Cell, Module and Array Based onTBP1275 Photovoltaic Module in Matlab/Simulink Environment**”, 3rd International Conference of computer Modeling and Simulation(ICCMS-2010),7-9 January 2011,Mumbai.

List of Funded Project Completed

1. MHRD funded GIAN Program

Program Coordinator of 10 days GIAN Program on “Smart Grid: Secure & Sustainable Energy” an MHRD Program, during 16th September 2016 to 25th September 2016, Funded by MHRD

List of Workshop /Seminar organized

1. **Coordinator of two days workshop jointly organized by Techbriddhi, IIT Guwahati & Department of EE, Tripura University and Tripura University on 18-19th January 2016, 18th to 19th January 2016**
2. **Coordinator of 10 days GIAN Program on “Smart Grid: Secure & Sustainable Energy” an MHRD Program, during 16th September 2016 to 25th September 2016, Funded by MHRD**
3. **Coordinator of 5 days workshop on “PHOENICS 2016” a UGC NRCPS Program, jointly organized by Institute of radio Physics and Electronics and Department of EE, Tripura University, 29th Feb 2016 to 4th March 2016**

4. Coordinator of two days workshop jointly organized by Micro Pro & National Instruments Company and Tripura University on 18-19th January 2016, Funded by National Instruments, 18th to 19th January 2016

5. Coordinator of one day workshop on “Smart Grid” held on 27th April 2015 at Tripura University, Funded by Tripura University

List of Seminar/workshop Attended

- 1. 3 week duration Refresher course on “ICT in science Education”** Funded by UGC- Human Resource Development Centre, Mumbai University, Mumbai, Maharashtra, India, during 3rd October 2016 to 22nd October 2016
- 2. Two Days Workshop on “Power Electronics application on Electrical Drives”** organised by Department of Electrical Engineering, NIT, Agartala. November 2015.
- 3. 4 weeks Orientation Program organised by UGC Academic Staff College , University of Mumbai, 28th February 2015 to 24th March 2015**
- 4. Tutorial workshop on “Recent Trends in ROBOTICS” organised by IEEE 11th International Annual Conference INDICON 2014. Puna, 11th -13th Dec,2014**
- 5. Orientation Program on “Business English Certification: Teacher Support Programme(TSP) , 12 Nov 2013 to 14th Nov 2013**
- 6. National Seminar on “Higher Education: Past, Present and Future-A Special Reference to North East India”, October 25th -26th, 2013**
- 7. One day Workshop on “Basics of Photonics” 1st February, 2014.** Organized by Department of Electrical Engineering, Tripura Institute of Technology, Narsingarh, Agartala. Sponsored by TEQIP-Phase II, Govt of India
- 8. One day Panel Discussion on Women & Science, “Careers of Woman in Science” , 25th February 2014, Organized by Women’s Studies Centre Tripura University**
- 9. 2 weeks duration Staff Development Program on “Power Electronics and Drives – Recent Development”, Organised by NIT Agartala 21st Feb – 4th March, 2011**

List of M.Tech Research Project Guided by Dr. Champa Nandi

- 1. Carbon Monoxide Level Detection and Control in a GPS Enable vehicle (2017 -2018)**
- 2. Design of an Intelligent Energy Management Controller for Hybrid Power Plant (2017 -2018)**
- 3. Renewable energy management through micro-grid controller design(2017 -2018)**
- 4. Intelligent Controller Design for hybrid PV hydroelectric Power Plant (2016 -2017)**
- 5. Efficient Smart Home Automation system(2016 -2017)**
- 6. Development of Smart Metering System for automatic water Level Control and measurement of water consumption. (2016 -2-017)**

7. **Full order state feedback controller for UPFC (2015-2016)**
8. **Controller Design of STATCOM (2014-2015)**
9. **Controlled Portable Solar Battery Charging System for Mobile Devices(2014-2015)**
10. **Synchronize the undistributed utility network under abnormal power-grid condition using enhanced phase-locked loop (EPLL). (2014-2015)**
11. **Harmonic Elimination of Cascaded Multi-level Inverter. (2014-2015)**
12. **STATCOM and Total Harmonics Distortion Analysis (2013-2014)**
13. **Role of FACTS Controller on Voltage Collapse. (2012-2013)**
14. **Power Flow & Voltage Control Using FACTS Devices. (2012-2013)**
15. **Modelling and Simulation of Grid Connected Wind Power Plant. (2011-2012)**
16. **Modelling and Simulation of IEEE 14- Bus System with UPFC. (2010-2011)**
17. **Benefits of Utilizing FACTS Controllers in Power System. (2010-2011)**

H -INDEX of Dr. Champa Nandi

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