

CURRICULAM VITAE



Name : **DHEEMAN CHATTERJEE**
Designation : **Assistant Professor**
Institution : **Indian Institute of Technology Kharagpur, India**
Date of Birth : **9th September, 1973**

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EDUCATION

Ph.D. (2007) - Electrical Engineering, Indian Institute of Technology Kanpur, India,
Thesis title, “Transient Stability Assessment of Power Systems Containing FACTS Controllers through Trajectory Sensitivity.”

M.E. (2002) - Electrical Engineering, Bengal Engineering College (Deemed University), Shibpur, West Bengal, India.
Thesis title, “A Study on Voltage Contingency Using Modal Analysis.”

Won the University Medal for Master of Engineering

B.E. (1996) - Electrical Engineering, Bengal Engineering College (Deemed University), Shibpur, West Bengal, India, 2002,

PROFESSIONAL EXPERIENCES

Academia:

- (i) Working as Assistant Professor at the Department of Electrical Engineering, I.I.T. Kharagpur, India since May 2008.
- (ii) Worked as Visiting Faculty at the Department of Electrical Engineering, I.I.T. Kharagpur, India from January 2008 to April 2008.
- (iii) Worked as Senior Lecturer at the Department of Electrical Engineering, Indian School of Mines Dhanbad, India from June 2007 to December 2007.

Industry:

- (iv) Worked at Dishergarh Power Supply Company Ltd., Asansol, W.B., India from November 1997 to August 2000.
- (v) Worked at G.K.W. Ltd., Howrah, W.B., India from May 1997 to October 1997.

SPECIALIZATION AND EXPERTISE

(a) Power system dynamics and stability, (b) Grid integration of wind energy, (c) HVDC & FACTS devices

AWARD/PRIZE/CERTIFICATE WON

1. University Medal for Master of Engineering at BESU, Shibpur
2. National Scholarship for both Madhyamik (10th Std.) and Higher Secondary

LIST OF PUBLICATION

Book Co-authored

MA Pai, D Chatterjee, "Computer techniques in power system analysis", McGraw-Hill Education (India)

Papers Published in International Journals

1. Dheeman Chatterjee and Arindam Ghosh, "Transient Stability Assessment of Power Systems Containing Series and Shunt FACTS Compensators", *IEEE Transactions on Power Systems*, Vol. 22, No. 3, pp. 1210-1220, August 2007.
2. Dheeman Chatterjee and Arindam Ghosh, "TCSC Control Design for Transient Stability Improvement of a Multi-Machine Power System Using Trajectory Sensitivity", *Electric Power Systems Research*, Vol. 77, No. 5-6, pp. 470-483, April 2007.
3. Dheeman Chatterjee, Arindam Ghosh, "Application of Trajectory Sensitivity for The Evaluation of The Effect of TCSC Placement on Transient Stability," *International Journal of Emerging Electric Power Systems*, Vol. 8, No. 1, Article 4, 2007.
4. Dheeman Chatterjee, Arindam Ghosh, "Improvement of Transient Stability of Power Systems with STATCOM-Controller using Trajectory Sensitivity," *International Journal of Electrical Power and Energy Systems*, Vol. 33, No. 3, pp. 531-539, March 2011.
5. Arghya Mitra, Dheeman Chatterjee, "A sensitivity based approach to assess the impacts of integration of variable speed wind farms on the transient stability of power systems", *Renewable Energy (Elsevier)*, volume 60, December 2013, pp. 662–671.
6. Srayashi Konar, Dheeman Chatterjee, Sourav Patra, "A V-Q Sensitivity Based Index for Assessment of Dynamic Voltage Stability of Power Systems", *IET Generation, Transmission & Distribution*, 9 (7), 677-685.
7. A Mitra, D Chatterjee, "Active power control of DFIG-based wind farm for improvement of transient stability of power systems", *IEEE Transactions on Power Systems*, 31 (1), 82-93

Papers Presented in International Conferences

1. Dheeman Chatterjee and Arindam Ghosh, "Using Trajectory Sensitivity for Stability Assessment of a Ward-PV Equivalent Power System," Presented in *IEEE Power Engineering Society General Meeting 2007*, Tampa City, Florida, USA, 24-28 June 2007.
2. Dheeman Chatterjee and Arindam Ghosh, "Evaluation of Transient Stability Margin of a Power System Containing Multiple FACTS Devices," *Proc. Of IEEE Power Engineering Society General Meeting 2005*, pp. 1787-1794, San Francisco, CA, USA, 12-16 June 2005.
3. Arindam Ghosh, Dheeman Chatterjee, P Bhandiwad and M.A. Pai, "Trajectory Sensitivity Analysis of TCSC Compensated Power Systems," *Proc. Of IEEE Power Eng. Soc. Gen. Meeting 2004*, pp. 1516-1521, Denver, CO, 6-10 June 2004.

ONGOING PROJECTS

1. "A Study of the Operation and Control of a Proposed Coastal HVDC Highway for Offshore Wind Power Integration", funded by Department of Science & Technology, India, Role - PI.
2. A Study of Hybrid FACTS Controllers for Transmission and High Voltage Distribution Application, funded by Department of Science & Technology, India, Role – Co-PI

COMPLETED PROJECT

"A Study of The Impacts of Increased Penetration of Wind Power on Power System Stability", funded by Department of Science & Technology, India, Role - PI.