

## **NAME**

Dr. Darji Pranavkumar B.

## **QUALIFICATION**

PhD : IIT Bombay

M.E : IISc, Bangalore

B.E : Government Engineering College, Modasa

## **Area of Interest**

Power System Dynamics, HVDC, FACTS Controllers.

## **Teaching Experience**

- Lecturer in Electrical Engineering Department, SV NIT Surat (NIT, Surat), January-1999 to January-2013.
- Associate Professor in Electrical Engineering Department, SVNIT (NIT, Surat), January-2013 till date.

## **Publications**

- Pranav B. Darji, Anil M. Kulkarni, "Vector Definitions for Control of Single-phase and Unbalanced Three-phase Systems" IEEE Trans on Power Delivry, 2014, Vol. 29, No. 5 pp. 2136-2145.
- Sawata R. Deore, Pranav B. Darji, Anil M. Kulkarni, "Switching function analysis of half- and full-bridge modular multi-level converters for HVDC applications", IET Gener. Transm. Distrib., 2013, Vol. 7, Iss. 11, pp. 1344–1356.
- Udaya Kumar, Vishwanth Hegde and Pranavkumar B. Darji, "Investigations on voltages and currents in the lightning protection system of the Indian satellite launch pad-I during a stroke interception", IET Sci. Meas. Technol., 2007, 1, (5), pp. 225–231.
- Pranav B. Darji, Anil M. Kulkarni, "Dynamic Performance of a Modular Multi-level Converter based HVDC Terminal under Unbalanced AC Grid Conditions", Presented at 10<sup>th</sup> IET AC DC Transmission, International conference held at Birmingham.
- Sawata R. Deore, Pranav B. Darji, Anil M. Kulkarni, "Dynamic Phasor Modeling of Modular Multi-level Converters", 7<sup>th</sup> IEEE International conference on Industrial and Information systems (IICS), 2012, pp. 1-6.
- Das, M. K., A. M. Kulkarni, and P. B. Darji. "Comparison of DQ and Dynamic Phasor based frequency scanning analysis of grid-connected Power Electronic Systems." Power Systems Computation Conference (PSCC), 2016. IEEE, 2016.

- Ashok Parmar and Pranav Darji, "Optimum capacity Allocation and Pricing in Energy and Capacity Market by Particle Swarm Optimizer", 7<sup>th</sup> International Conference on power system (ICPS-2017).
- Ashok Parmar and Pranav Darji, "Comparative analysis of Optimum Capacity allocation and Pricing in Power market by different optimization algorithm", 7th International Conference on soft computing for problem solving (Socpros-2017).
- A. Parmar and P. Darji, "Comparative analysis of optimum capacity allocation and Pricing in power market by different optimization algorithms," Proceeding of the Springer-ScoPros-2017, December 2017 – published (**Awarded as best paper**).
- Rohit Chirag V., Pranav B. Darji, and Hitesh R. Jariwala. "Mitigation of IGE using STATCOM with DFIGs." 2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES). IEEE, 2018.
- K. Bhatia, P. B. Darji and H. R. Jariwala, "Safety Analysis of TN-S and TN-C-S Earthing System," 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Palermo, 2018, pp. 1-6.
- K. Bhatia, P. B. Darji and H. R. Jariwala, "Analysis of Touch Voltage in TN-S Earthing System," 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Palermo, 2018, pp. 1-6.
- K. Bhatia, P. B. Darji and H. R. Jariwala, "Cogent Assessment of Safety Parameters in Design of Microgrid Grounding System," 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Genova, Italy, 2019, pp. 1-6