

Title of the Tutorial

“Synthesis of a family of 4 and 5-switch doubly grounded single phase PV Micro-inverters”

By

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Abstract of the Tutorial:

This Tutorial will systematically present a structured design process of 4- and 5-switch PV micro-inverters. The developed configurations all follow the "doubly grounded" structure which ensures minimal common-mode currents through the PV panel. It will be attempted to start from a fundamental level and evaluate some of their steady-state behaviour.

Brief Biodata of the Speaker



Parthasarathi Sensarma (M'00) received the B.E.E degree from Jadavpur University, Kolkata, India, in 1990; the M.Tech degree from the Indian Institute of Technology (IIT) Kharagpur, Kharagpur, India, in 1992; and the Ph.D. degree from Indian Institute of Science Bangalore, Bangalore, India, in 2001, all in electrical engineering. He had held positions at Bharat Bijlee Ltd., Thane, India; CESC Ltd., India; and ABB Corporate Research, Baden-Daettwil, Switzerland, where he was a

Staff Scientist in the Power Electronics Department. Since 2002, he has been with the Department of Electrical Engineering, IIT Kanpur, Kanpur, India, where he is currently a Professor. There he teaches courses on power electronics and electrical engineering. His research interests include power quality, power converters, renewable energy integration and electrical machine design.