Power Systems Engineering Research Center

Development of Attribute Preserving Network Equivalents

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PSERC Public Webinar
Tuesday, February 4, 2014
2:00-3:00 p.m. Eastern Time (11:00-12:00 p.m. Pacific)

Description

This talk addresses attribute preserving power network equivalents, with a specific focus on the relatively unexplored area of transmission line limit preserving equivalents (LPEs). There is a desire to develop LPEs for power system interconnections to be used in markets and reliability studies. Present day equivalencing algorithm, such as Kron reduction, do not retain the limits for the transmission lines as they are equivalenced. This talk explores techniques to determine limits for the equivalence lines.

This research is one of the PSERC projects coordinated by the Consortium for Electric Reliability Technology Solutions (CERTS) with funding provided by the U.S. DOE.

Biography

Tom Overbye is the Fox Family Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign (UIUC). He is also the original developer of PowerWorld Simulator, an innovative computer program for power system analysis and visualization and a co-founder of PowerWorld Corporation. Overbye received his BS, MS, and Ph.D. degrees in Electrical Engineering from the University of Wisconsin-Madison in 1983, 1988 and 1991 respectively. Prior to joining UIUC he worked as a power system operations engineer for Madison Gas and Electric. His current research interests include electric power system analysis, visualization, restructuring and power system resiliency

Registration for Webinar Participation: None required. There is no charge for participating!

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Assistance: If you have any questions, please call 480-965-1643 or email pserc@asu.edu.

PSERC's Webinar Coordinator: Venkataramana Ajjarapu, Iowa State University, vajjarap@iastate.edu.

Professor Ajjarapu welcomes feedback on the webinars and suggestions for future ones.