The Electrical and Computer Engineering Program presents

High-Power Converters and their Applications in Electric Drive and Wind Energy Industries

Prof. Bin Wu
Electrical and Computer Engineering, Ryerson University

Wednesday, 23 Feb. 2011, 12.30–1.30 p.m.
Lecture Hall 144
light lunch will be served

With recent technology advancements in high-power semiconductor devices and digital processors, high-power converters in the megawatt (MW) range are increasingly used in industry. This seminar provides an overview of the latest development in high-power converters and their practical applications in the electric drive and wind energy industries. The main topics include high-power semiconductor devices, power converter topologies, modulation techniques, control schemes, and practical issues in the drive and wind energy systems. The topics covered in the seminar are mainly extracted from presenter's two books: High-Power Converters and AC Drives (2006) and Power Conversion and Control of Wind Energy Systems (2011).

Prof. Bin Wu received the Ph.D. degree in electrical and computer engineering from the University of Toronto in 1993. After being with Rockwell Automation Canada as a Senior Engineer, he joined Ryerson University, Toronto, where he is currently a Professor and NSERC/Rockwell Industrial Research Chair. Dr. Wu has published more than 200 technical papers, authored /coauthored two Wiley-IEEE Press books, and holds more than 20 issued/pending patents in the area of power conversion, advanced controls, adjustable-speed drives and renewable energy systems. Dr. Wu received the Gold Medal of the Governor General of Canada, the Premier's Research Excellence Award, Ryerson Distinguished Scholar Award, Ryerson Research Chair Award, and the NSERC Synergy Award for Innovation. He is a fellow of IEEE, Engineering Institute of Canada (EIC), and Canadian Academy of Engineering (CAE). Dr. Wu is an Associate Editor of IEEE Transactions on Power Electronics and IEEE Canadian Review.

FOR MORE INFORMATION:

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