



Praveen Jain (S'86, M'88, SM'91, F'02) received a BE (Hons.) degree from the University of Allahabad, India, and MASc and PhD degrees from the University of Toronto, Canada, in 1980, 1984, and 1987, respectively, all in electrical engineering. Presently, he is a Professor and Tier-1 Canada Research Chair in Power Electronics at Queen's University in Kingston, Ontario, Canada. He is also the founding Director of the Queen's Centre for Energy and Power Electronics Research (ePOWER).

From 1994 to 2000, Dr. Jain was a Professor at Concordia University, Montreal, Canada, where was engaged in teaching and research in the field of power electronics. Prior to this (1989-1994) he was a Technical Advisor with the Power Group, Nortel Networks, Ottawa, Canada, where he was providing guidance for research and development of advanced power technologies for telecommunications. During 1987-1989, he was with Canadian Astronautics Ltd., Ottawa, Canada, where he played a key role in the design and development of high frequency power conversion equipments for the Space Station Freedom. He was a design engineer and production engineer at Brown Boveri Company and Crompton Greaves Ltd., India, respectively during the period of 1980-1981. He also has considerable consulting experience with the industry including Astec, Ballard, General Electric, Intel and Nortel.

Dr. Jain has attracted over \$20M funding to conduct research and establish the state-of-the-art Energy and Power Electronics Applied Research Laboratory (ePEARL) at Queen's University. He has also supervised over 75 research engineers, postdoctoral fellows and graduate students. He has considerable experience in transferring technology from university lab to practical product designs. He secured over \$35M venture funding to found CHiL Semiconductor to design and market mixed analog/digital semiconductor chip products.

Dr. Jain has published over 375 publications including 40 patents in the area of power electronics. He is a Fellow of the Institute of Electrical and Electronics Engineering (FIEEE), a Fellow of the Engineering Institute of Canada (FEIC) and a Fellow of the Canadian Academy of Engineering (FCAE). He is also the recipient of 2004 Engineering Medal (R&D) of the Professional Engineers of Ontario. He is an Associate Editor of IEEE Transactions on Power Electronics, and KIPE Journal of Power Electronics.

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Lecture Topics:

- a) Resonant and Soft-switching Converters;
- b) Power Factor Correction