



Fang Zheng Peng (F' 2004) received the B.S. degree in electrical engineering from Wuhan University, China, in 1983 and the M.S. and Ph.D. Degrees in electrical engineering from Nagaoka University of Technology, Japan, in 1987 and 1990, respectively.

He joined Toyo Electric Manufacturing Company, Ltd., from 1990 to 1992 as a research scientist, was engaged in research and development of active power filters, flexible ac transmission systems (FACTS) applications and motor drives. From 1992 to 1994, he worked with Tokyo Institute of Technology as a Research Assistant Professor, initiated a multilevel inverter program for FACTS applications and a speed-sensorless vector control project. From 1994 to 2000, he worked for Oak Ridge National Laboratory (ORNL), as a Research Assistant Professor at University of Tennessee, Knoxville from 1994 to 1997 and was a staff member, Lead (principal) Scientist of the Power Electronics and Electric Machinery Research Center at ORNL from 1997 to 2000. In 2000, he joined Michigan State University as an Associate Professor and now a full professor of the Department of Electrical and Computer Engineering. Dr. Peng has established a power electronics research center that is fully funded by industry, consisting of a low voltage (0 to 600 V) lab geared for automotive applications and alternative energy, a high voltage (600 to 10,000 V) lab for research on power systems and high power motor drives for ship propulsion and large vehicles, a hybrid electric vehicle (HEV) power train station, and a flexible power station for investigation of renewable/alternative energy interface, plug-in HEV, and V2G. Many research scholars and professors from many universities and companies all around the world have come to visit and tour the labs.

Dr. Peng received many awards including the 1996 First Prize Paper Award and the 1995 Second Prize Paper Award of Industrial Power Converter Committee in IEEE/IAS Annual Meeting; the 1996 Advanced Technology Award of the Inventors Clubs of America, Inc., the International Hall of Fame; the 1991 First Prize Paper Award in IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS; and the 1990 Best Paper Award in the Transactions of the IEE of Japan, the Promotion Award of Electrical Academy. He has served the IEEE Power Electronics Society in many capacities: such as Chair of Technical Committee for Rectifiers and Inverters an Associate Editor for the IEEE Power Electronics Transactions, Region 1-6 Liaison, Member-at-Large, etc. He was elevated to a IEEE fellow in 2004. Dr. Peng holds over 10 patents and two of them have been used extensively in industry.

Dr. Peng's contact information:

Fang Z. Peng,
Professor
Michigan State University
Department of Electrical & Computer Engineering
2120 Engineering Building
East Lansing, MI 48824
Phone: 517-336-4687
Fax: 517-353-1980
Email: fzpeng@egr.msu.edu
Website: www.egr.msu.edu/pelab

Lecture Topics:

- a) Z-Source Converter/Inverter Topologies and Their Applications
- b) High Voltage High Power Converters/Inverters
- c) Inverter Systems and Control for PV and Wind Power Generation