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He worked at Crompton Greaves Limited (1990-2001) and specialized in the design and development of transformers up to 400 kV class. He was a recipient of the *Young Engineer Award* conferred by INAE in 2000 for his contributions to *Electromagnetic Field Computations and High Voltage Insulation Design* in transformers. He was also honored with the *Career Award for Young Teachers* from All India Council for Technical Education in 2001. He received Best Paper Awards in international conferences on transformers held in 2002 and 2006.

He has authored a book *Transformer Engineering: Design, Technology, and Diagnostics, Second Edition*, published by CRC Press in September 2012 and he received IIT Bombay Research Dissemination Award 2016 for the book. He has also written a chapter *Challenges and Strategies in Transformer Design* in the book *Transformers: Analysis, Design, and Measurement* published by CRC Press in June 2012. He has also adapted an undergraduate textbook on electromagnetics for Asia, *Principles of Electromagnetics*, Oxford University Press, published in October 2015.

His extensive interactions with transformer and power industries are reflected in his numerous consultancy projects for them. He has organized several training programs on transformers and computational electromagnetics for engineers from industries and academia in India. He has given many invited tutorials and talks in international workshops and conferences on transformers. *Field Computation Laboratory* and *Insulation Diagnostics Laboratory* in the Electrical Engineering Department at IIT Bombay have been established by him.

He has more than 180 publications to his credit in reputed journals and conferences. He has one US patent on transformer deformation diagnostics. His current areas of research include *Analysis and Diagnostics of Transformers, Advanced Electromagnetic and Coupled Field Computations, and Distributed Generation and Smart Grids*.

For more details see: <http://www.ee.iitb.ac.in/wiki/faculty:svk>