



Electric Power Quality (Power Systems)

By Surajit Chattopadhyay, Madhuchhanda Mitra, Samarjit Sengupta

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In the present day deregulated power market electric power quality issues have become great concerns of utilities, end users and manufacturers. Worldwide researches are going on to address those issues. Electric Power Quality has evolved from the researches carried out by the authors.

The key features of the book can be highlighted as follows: the contents focuses, on one hand, different power quality issues, their sources and effects and different related standards, which are required for students, researchers and practising engineers and, on the other hand, measurement techniques for different power quality parameters, the content level is designed in such a way that the concepts of different power quality issues in modern power system are built up first, followed by some existing and new measurement methods. This content should attract the students, researchers and practising engineers, the predominant features are Lucid but concise description of the subject, detailed new measurement techniques and Electric Power Quality is intended for graduate, postgraduate and researchers as well as for professionals in the related fields.

At the end, a chapter has been added which deals with a concept of generation of harmonics in a power system and its components.

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Editorial Review

From the Back Cover

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About the Author

Surajit Chattopadhyay has obtained B. Sc. Degree in Physics Honours from Ramakrishna Mission Vidyamandir, B. Tech., M. Tech. And Ph. D. (Technology) Degree in electrical engineering from Department of Applied Physics of University of Calcutta. He has been involved in research work on power quality in the Department of Applied Physics. He is the recipient of award for “best research paper” by the Department of Science and Technology (DST) and Government of West Bengal in 2005. He has authored 35 papers published in international and national journals and conferences. Three of his papers have been selected as best paper in international level. He has presented papers in Lyon, France, Kuala Lumpur, Malaysia and Dhaka, Bangladesh. He has industrial experience on computer interfacing in electrical applications and for last eight years he has been involved in teaching profession in degree and post graduate level. Presently, he is assistant professor in Hooghly Engineering & Technology College and visiting faculty of Department of Applied Physics of University of Calcutta. He is member of IET (UK). His field of interest includes power system protection, power quality and computer interfacing in electrical applications. He has coauthored one book on Basic Electrical Engineering.

Madhuchhanda Mitra has obtained B. Sc. Degree in Physics Honours, B. Tech., M. Tech. and Ph. D. Degree in Electrical Engineering from University of Calcutta. She has authored more than 60 papers published in international journal and proceedings of international conference. She is the recipient of many best paper awards in national and international level. Presently she is reader in the Department of Applied Physics, University of Calcutta. Her field of interest power quality and medical instrumentation. She has coauthored a book on PLC and industrial automation.

Samarjit Sengupta has obtained B. Sc. Degree in Physics Honours, B. Tech., M. Tech. and Ph. D. Degree in Electrical Engineering from University of Calcutta. He has authored more than 75 papers published in international journal and proceedings of international conference. He is the recipient of many best paper awards in national and international level. Presently he is professor and Head of the Department of Applied Physics, University of Calcutta. His field of interest includes power system protection, power quality and Power System Stability. He is vice chairman of IET (UK) Kolkata Network. He has coauthored books on Basic Electrical Engineering, PLC and industrial automation.

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