

Understanding Power Quality Problems: Voltage Sags and Interruptions

By Math H. Bollen

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Power quality problems have increasingly become a substantial concern over the last decade, but surprisingly few analytical techniques have been developed to overcome these disturbances in system-equipment interactions. Now in this comprehensive book, power engineers and students can find the theoretical background necessary for understanding how to analyze, predict, and mitigate the two most severe power disturbances: voltage sags and interruptions.

This is the first book to offer in-depth analysis of voltage sags and interruptions and to show how to apply mathematical techniques for practical solutions to these disturbances. From UNDERSTANDING AND SOLVING POWER QUALITY PROBLEMS you will gain important insights into

- Various types of power quality phenomena and power quality standards
- Current methods for power system reliability evaluation
- Origins of voltage sags and interruptions
- Essential analysis of voltage sags for characterization and prediction of equipment behavior and stochastic prediction
- Mitigation methods against voltage sags and interruptions

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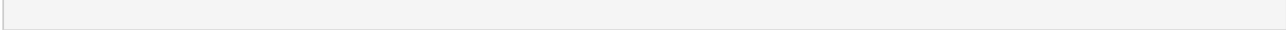
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Editorial Review

Review

"If any book can help you become a better presenter, Technically Speaking probably will. What mainly distinguishes D'Arcy's book from others is its readability. She models the behaviors she suggests by organizing the material well, by speaking from her own experiences in an informative but non-patronizing way, and by including many illustrative anecdotes." --Charles P. Campbell, PH.D. New Mexico Institute for Mining and Technology

Review

"Jan D'Arcy's Technically Speaking gives scientists and engineers a clear, structured framework for designing and delivering successful presentations. Readers will especially welcome the author's discussion of fear and how to make it work for you. Her no-nonsense tone and practical tips will go a long way toward dissipating the speaker's anxiety that plagues so many of us."

Review

"For anyone puzzling about how to communicate complex or technical information, this book is an extraordinarily useful tool."

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