Excellent Reference Book

The principles of the First Edition—to teach students and engineers the fundamentals of electrical transients and equip them with the skills to recognize and solve transient problems in power networks and components—also guide this Second Edition. While the text continues to stress the physical aspects of the phenomena involved in these problems, it also broadens and updates the computational treatment of transients. Necessarily, two new chapters address the subject of modeling and models for most types of equipment are discussed. The adequacy of the models, their validation and the relationship between model and the physical entity it represents are also examined. There are now chapters devoted entirely to isolation coordination and protection, reflecting the revolution that metal oxide surge arresters have caused in the power industry. Features additional and more complete illustrative material—figures, diagrams and worked examples. An entirely new chapter of case studies demonstrates modeling and computational techniques as they have been applied by engineers to specific problems.

My Personal Review:
One of the most notable features of Greenwoods text is he starts with the basics of transient electrical circuit theory and builds up chapter by chapter to the most difficult and misunderstood cases of power system transients. Especially appealing to a practicing power engineer is his dual slant on problem analysis. He not only demonstrates a mastery for the sometimes nasty mathematical analysis of transient problems, he shows his years of practical experience with logical physical explanations that reduce complex problems to several simple circuits problems. I definitely recommend this text for power system engineers interested in the transient response of power systems and how it affects all types of power equipment.

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