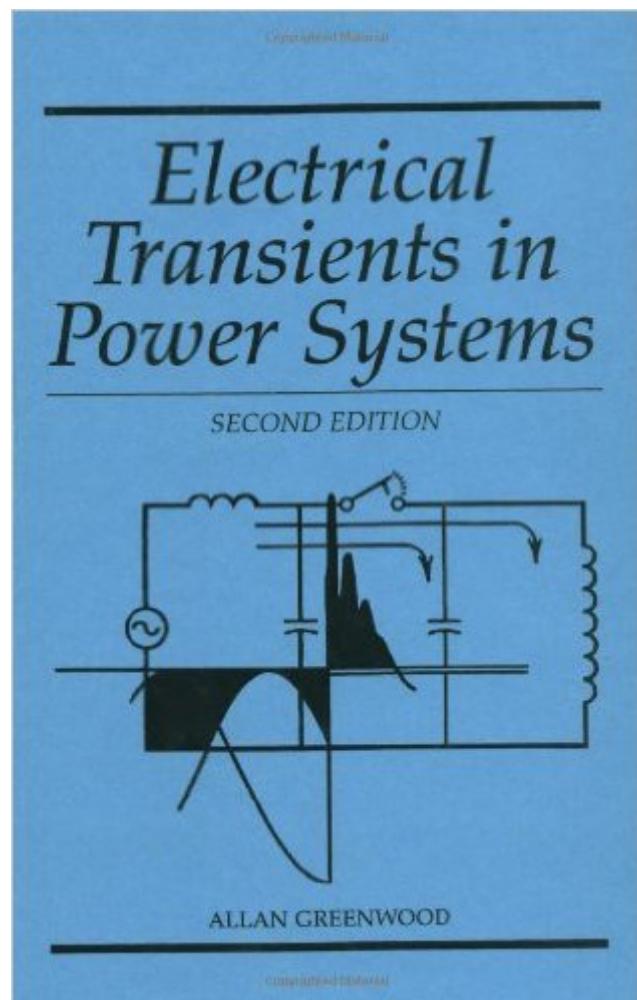


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# Electrical Transients In Power Systems



## **Synopsis**

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.

## **Book Information**

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## **Customer Reviews**

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.

This is an excellent book that covers a lot of ground. It also a lot of challenging problems that really test your understanding of the material. The material is fun to learn, as Greenwood tries to convey the physical phenomena at work behind the mathematics. He tries to give the student an intuitive feel for what's going on. It also covers fun topics such as lighting, as well as modeling of various parasitic parameters in a power system. An excellent reference book to have on your shelf.

This book presents the complex subject of power system transients in a clear and easy to follow manner with a lot of examples. It's a bummer that this book is so expensive, but it is indeed worth the price (How much is having an understanding of exactly what is going on during non-steady-state conditions worth to you?). These concepts can also be applied to the analysis of other circuits (i.e. switching transients in power electronics circuits).

The book is magnificent and so beautifully written. It is NOT for beginners in any case. Greenwood sometimes omits some details and you will spend a great of time understanding all the concepts in the book. This is a must have for power engineers.

This book is a practical book with many concrete information. For example the capacity in an high voltage power station or the author explain in very good details what happens during a fault in a circuit breaker. The only point that I find is not so positive is that the solutions manual is not to buy. I use this book for understanding any situations in the power plant.

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