

Power System Transient Analysis: Theory and Practice using Simulation Programs (ATP-EMTP)

By Eiichi Haginomori, Tadashi Koshiduka, Junichi Arai, Hisatochi Ikeda

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Understanding transient phenomena in electric power systems and the harmful impact of resulting disturbances is an important aspect of power system operation and resilience. Bridging the gap from theory to practice, this guide introduces the fundamentals of transient phenomena affecting electric power systems using the numerical analysis tools, Alternative Transients Program- Electromagnetic Transients Program (ATP-EMTP) and ATP-DRAW. This technology is widely-applied to recognize and solve transient problems in power networks and components giving readers a highly practical and relevant perspective and the skills to analyse new transient phenomena encountered in the field.

Key features:

- Introduces novice engineers to transient phenomena using commonplace tools and models as well as background theory to link theory to practice.
- Develops analysis skills using the ATP-EMTP program, which is widely used in the electric power industry.
- Comprehensive coverage of recent developments such as HVDC power electronics with several case studies and their practical results.
- Provides extensive practical examples with over 150 data files for analysing transient phenomena and real life practical examples via a companion website.

Written by experts with deep experience in research, teaching and industry, this text defines transient phenomena in an electric power system and introduces a professional transient analysis tool with real examples to novice engineers in the electric power system industry. It also offers instruction for graduates studying all aspects of power systems.

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- Sales Rank: #2002625 in eBooks
- Published on: 2016-02-29
- Released on: 2016-02-29
- Format: Kindle eBook

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Editorial Review

From the Back Cover

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Eiichi Haginomori is currently at the University of Tokyo. Previous to this he was in the Department of Electrical Engineering at Kyushu Institute of Technology (1998-2003) and in Chemical Engineering at Chuo University. At both universities he researched into EMTP application to Electrical Engineering. He was Chief Specialist in the Switchgear Engineering Department of Toshiba's Head Office for ten years, and belongs to IEC standard committee groups such as WG1 and WG10, in IEC SC17A (High-voltage Switchgear and controlgear).

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Junichi Arai, Kougakuin University, Japan
Professor Arai is Chair of the Department of Electrical Engineering and Dean of the Faculty of Engineering at Kogakuin University. Previous to this he was Senior Fellow of the Transmission & Distribution System Division at Toshiba Corp., and Deputy Senior Chief Engineer in the International Marketing Division of TM T&D Corp. He has written seventeen papers related to the topic, a chapter in Electrical Engineering Handbook, published by IEE of Japan, and a chapter in Liberalization of Electricity Markets and Technological Issues. He holds 10 patents related to his research in power control and circuits.

Hisatoshi Ikeda, University of Tokyo, Japan
Hisatoshi Ikeda is currently Project Professor, having been Visiting Professor at Kyushu Institute of Technology for three years previously. From 2002 to 2007 he was General Manager, Transmission and Distribution Research and Development Center at TM T&D Co, andAssistant General Manager at Hamakawasaki-works, Toshiba Corp. Professor Ikeda holds 56 Japanese patents and 12 USA patents. He has been a secretary of the short-circuit testing liaison in Japan.

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