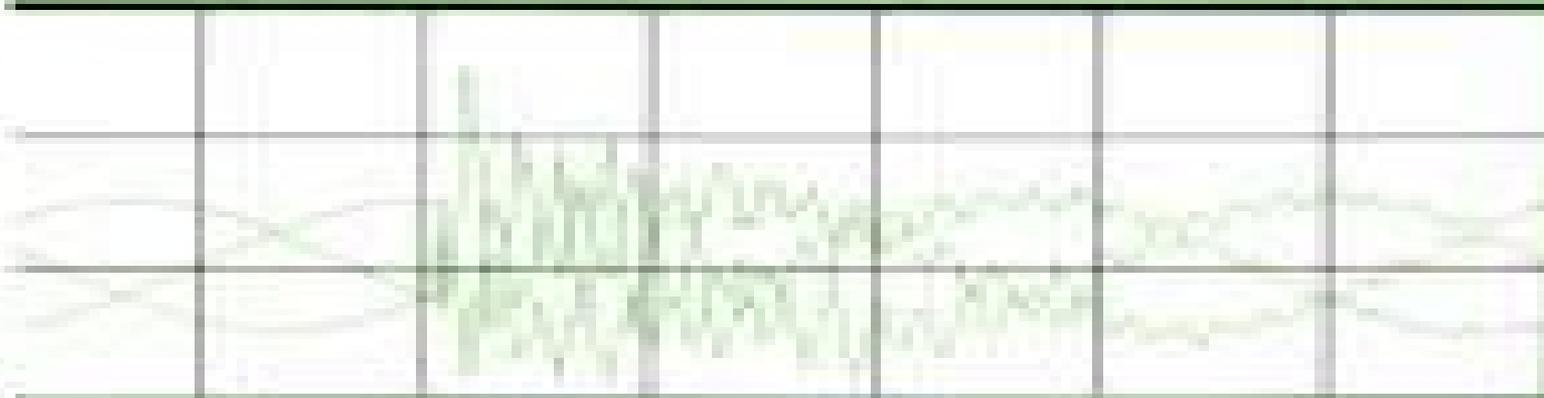


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# Electromagnetic Transients Program (EMTP)

APPLICATION GUIDE



EMTP DEVELOPMENT COORDINATION GROUP  
ELECTRIC POWER RESEARCH INSTITUTE

# Electromagnetic Transients Program Application Guide

**S. F. Mauser, T. E.  
McDermott, Westinghouse Electric  
Corporation, Electric Power Research  
Institute**

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**Electromagnetic Transients Program (empt) Version 2.0** V. Brandwajn, Y. Liu, ABB Systems Control Company, Inc, 1991

*Transient Analysis of Power Systems* Juan A. Martinez-Velasco, 2020-02-10 A hands on introduction to advanced applications of power system transients with practical examples

*Transient Analysis of Power Systems A Practical Approach* offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research The book explores a wide range of topics from an introduction to the subject to a review of the many advanced applications involving the creation of custom made models and tools and the application of multicore environments for advanced studies The authors cover the general aspects of the transient analysis such as modelling guidelines solution techniques and capabilities of a transient tool The book also explores the usual application of a transient tool including over voltages power quality studies and simulation of power electronics devices In addition it contains an introduction to the transient analysis using the ATP All the studies are supported by practical examples and simulation results This important book Summarises modelling guidelines and solution techniques used in transient analysis of power systems Provides a collection of practical examples with a detailed introduction and a discussion of results Includes a collection of case studies that illustrate how a simulation tool can be used for building environments that can be applied to both analysis and design of power systems Offers guidelines for building custom made models and libraries of modules supported by some practical examples Facilitates application of a transients tool to fields hardly covered with other time domain simulation tools Includes a companion website with data input files of examples presented case studies and power point presentations used to support cases studies Written for EMTP users electrical engineers

*Transient Analysis of Power Systems* is a hands on and practical guide to advanced applications of power system transients that includes a range of practical examples

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*Switching in Electrical Transmission and Distribution Systems* René Smeets, Lou van der Sluis, Mirsad Kapetanovic, David F. Peelo, Anton Janssen, 2015-01-05

*Switching in Electrical Transmission and Distribution Systems* presents the issues and technological solutions associated with switching in power systems from medium to ultra high voltage The book systematically discusses the electrical aspects of switching details the way load and fault currents are interrupted the impact of fault currents and compares switching equipment in particular circuit breakers The authors also explain all examples of practical switching phenomena by examining real measurements from switching tests Other highlights include up to date commentary on new developments in transmission and distribution technology such as ultra high voltage systems vacuum switchgear for high voltage generator circuit breakers distributed generation DC interruption aspects of cable systems disconnecter switching

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Conference Record of the 1988 IEEE Industry Applications Society Annual Meeting IEEE Industry Applications Society. Meeting, 1988      **Industrial Power Engineering Handbook** KC Agrawal, 2001-11-08 Part 1 Electric Motors Part 2 Switchgear Assemblies and Captive Power Generation Part 3 Voltage Surges Over voltages and grounding practices Part 4 Power Capacitors Part 5 Bus Systems      *An Object-oriented Database System for Computer Aided Design Applications* Yenren Liu, 1987

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