



# Power System Transients: Theory and Applications, Second Edition

*Akihiro Ametani, Naoto Nagaoka, Yoshihiro Baba, Teruo Ohno, Koichi Yamabuki*

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This new edition covers a wide area from transients in power systems?including the basic theory, analytical calculations, EMTP simulations, computations by numerical electromagnetic analysis methods, and field test results?to electromagnetic disturbances in the field on EMC and control engineering. Not only does it show how a transient on a single-phase line can be explained from a physical viewpoint, but it then explains how it can be solved analytically by an electric circuit theory. Approximate formulas, which can be calculated by a pocket calculator, are presented so that a transient can be analytically evaluated by a simple hand calculation. Since a real power line is three-phase, this book includes a theory that deals with a multi-phase line for practical application. In addition, methods for tackling a real transient in a power system are introduced. This new edition contains three completely revised and updated chapters, as well as two new chapters on grounding and numerical methods.

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