



Current Interruption Transients Calculation

David F. Peelo

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Provides an original, detailed and practical description of current interruption transients, origins, and the circuits involved, and how they can be calculated

Current Interruption Transients Calculation is a comprehensive resource for the understanding, calculation and analysis of the transient recovery voltages (TRVs) and related re-ignition or re-striking transients associated with fault current interruption and the switching of inductive and capacitive load currents in circuits.

This book provides an original, detailed and practical description of current interruption transients, origins, and the circuits involved, and how they can be calculated and then analysed using only a hand calculator and a spreadsheet program.

Key features:

- Detailed theory on all of the current interruption cases that can occur on a power system.
- Clear explanation on how to calculate transients, showing how four basic circuits can represent all transients and can be solved in general without any use of the 'classical' Laplace transform method.
- Series and parallel RLC circuit theory, followed by the calculation of pole factors using the symmetrical component method to derive the base power frequency components, with results applied to all the relevant transient cases.
- Fault current interruption and inductive and capacitive load current switching cases illustrated using real application examples.

With its practical approach, this book offers engineers the tools they need when analysing circuit breaker applications. It will be of great interest to practicing engineers and electric utility staff involved in circuit breaker design, specification, testing, switchgear application, system operation and planning, and in particular, for engineers using simulation programs for transient calculations. It will also be useful for senior undergraduate and postgraduate electrical power engineering students looking to work in switchgear manufacturers and testing laboratories.

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