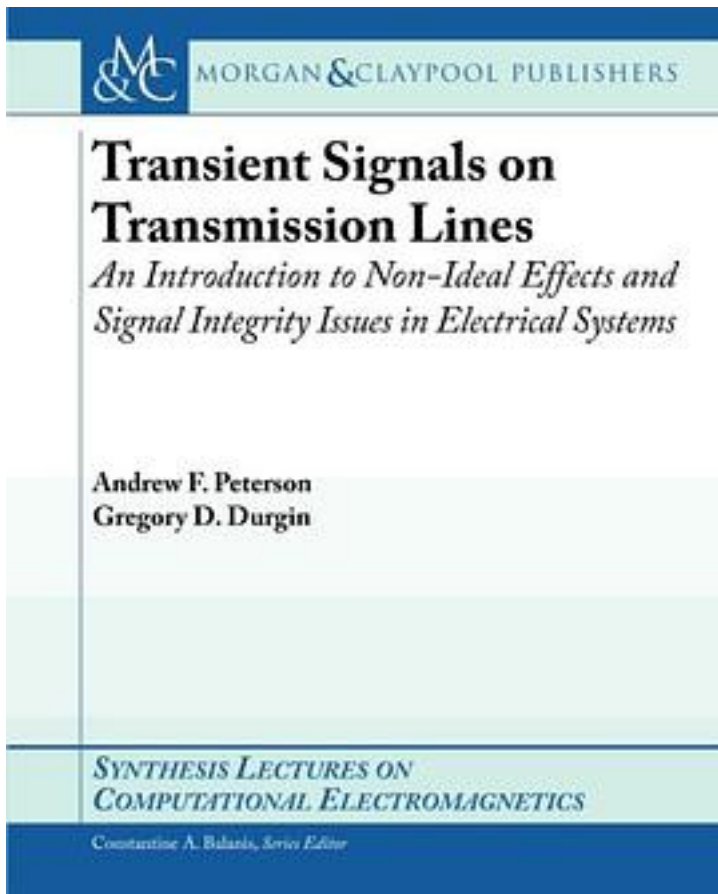


Transient Signals on Transmission Lines



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This lecture provides an introduction to transmission line effects in the time domain. Fundamentals including time of flight, impedance discontinuities, proper termination schemes, nonlinear and reactive loads, and crosstalk are considered. Required prerequisite knowledge is limited to conventional circuit theory. The material is

intended to supplement standard textbooks for use with undergraduate students in electrical engineering or computer engineering. The contents should also be of value to practicing engineers with interests in signal integrity and high-speed digital design. Table of Contents: Introduction / Solution of the Transmission Line Equations / DC Signals on a Resistively Loaded Transmission Line / Termination Schemes / Equivalent Circuits, Cascaded Lines, and Fan-Outs / Initially-Charged Transmission Lines / Finite Duration Pulses on Transmission Lines / Transmission Lines with Reactive Terminations / Lines with Nonlinear Loads / Crosstalk on Weakly Coupled Transmission Lines

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目录:

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