



# Computer Methods for Analysis of Mixed-Mode Switching Circuits (Kluwer International Series in Engineering & Computer Scienc)

*Fei Yuan, Ajoy Opal*

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**Computer Methods for Analysis of Mixed-Mode Switching Circuits** provides an in-depth treatment of the principles and implementation details of computer methods and numerical algorithms for analysis of mixed-mode switching circuits. Major topics include:

- Computer-oriented formulation of mixed-mode switching circuits,
- Network functions of linear and nonlinear time-varying systems,
- Numerical Laplace inversion based integration algorithms and inconsistent initial conditions,
- Time domain analysis of periodically switched linear and nonlinear circuits including response, sensitivity, noise, clock jitter, and statistical quantities,
- Time domain analysis of circuits with internally controlled switches and over-sampled sigma-delta modulators,
- Tellegen's theorem, frequency reversal theorem, and transfer function theorem of periodically switched linear circuits and their applications,
- Frequency domain analysis of periodically switched linear and nonlinear circuits including response, sensitivity, group delay, noise, and statistical quantities.

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