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By William D. Stanley

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This book presents general methods of circuit and network analysis by employing differential and integral calculus and transform methods with a strong emphasis on application. Chapter topics cover basic circuit laws; circuit analysis methods; capacitive and inductive transients and equivalent circuits; initial, final, and first-order circuits; LaPlace transforms; circuit analysis with LaPlace transforms; transfer functions; sinusoidal steady-state analysis; frequency response analysis and bode plots; waveform analysis; and Fourier analysis. For learners of advanced circuit analysis, network analysis, and linear systems.

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Editorial Review

From the Publisher

The primary objective of this book is to present the general methods of circuits and network analysis by employing differential and integral calculus and transform methods with a strong applied emphasis.

From the Back Cover

Network Analysis with Applications presents the general methods of circuit and network analysis by employing differential and integral calculus and transform methods with a strong *applied* emphasis.

Some of its features are:

- Comprehensive review of basic circuit laws and analysis methods.
- Capacitive and inductive transients, with special emphasis on graphical interpretation.
- Simplified treatment of first-order circuits.
- Simplified treatment of the Laplace transform and its application to higher-order circuits. Transfer function analysis and pole-zero concepts. Sinusoidal steady-state analysis and its relationship to transient analysis. Frequency response analysis and Bode plots. Waveform analysis. New features in the fourth edition include:
 - Electronics Workbench™ (EWB) examples have been updated to work with Multisim, the latest version of EWB.
 - Appendix E provides a brief introduction to MATLAB® to familiarize readers with the program.

Users Review

From reader reviews:

James Williams:

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