



## Network Analysis with Applications (4th Edition)

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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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## **Network Analysis with Applications (4th Edition) By William D. Stanley Bibliography**

- Sales Rank: #1118477 in Books
- Published on: 2002-06-22
- Original language: English
- Number of items: 1
- Dimensions: 8.90" h x 1.40" w x 7.20" l,
- Binding: Paperback
- 662 pages



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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. Newfeatures 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.

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