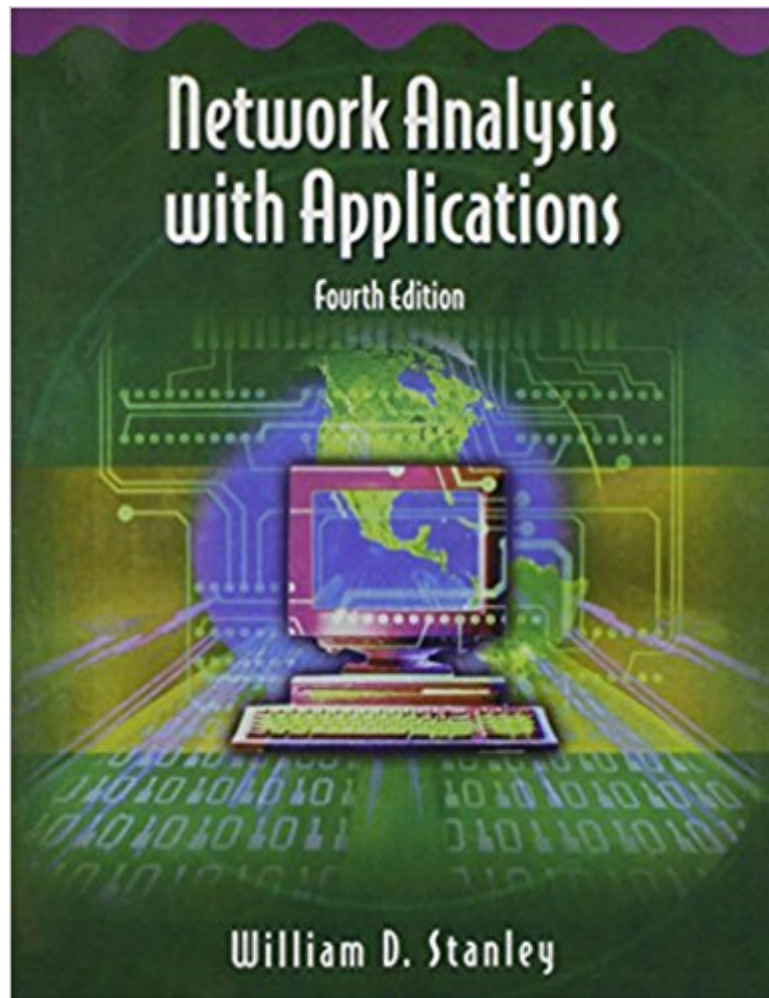




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Network Analysis With Applications (4th Edition)



Synopsis

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.

Book Information

Paperback: 662 pages

Publisher: Pearson; 4 edition (June 22, 2002)

Language: English

ISBN-10: 0130602469

ISBN-13: 978-0130602466

Product Dimensions: 7.3 x 1.6 x 8.9 inches

Shipping Weight: 2.5 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 5 customer reviews

Best Sellers Rank: #432,756 in Books (See Top 100 in Books) #51 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Power Systems #195 in Books > Education & Teaching > Schools & Teaching > Counseling > Career Development #255 in Books > Business & Money > Job Hunting & Careers > Vocational Guidance

Customer Reviews

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. --This text refers to an out of print or unavailable edition of this title.

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.

I was very weary of this book because I typically like books that are in the "modern college textbook" format, i.e. nice sentence structure, color pictures, numerous examples, etc... however this book is a little old-school. With that being said however, I learned more about the basic circuit concepts in these chapters than I did in my introductory circuit class that did have the "modern college" textbook. This book has a very interesting way of approaching circuits from a system level and you can definitely tell that the author cares about teaching the reader the art of linear system analysis on a personal level. Very good book! WARNING: Be sure you are getting the hardcover edition. Not only is it 2/3 smaller than its softcover counter-part, it is also more durable. Every student that got the soft-cover edition had chunks of the book falling out half-way through the semester!

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The book is "pricey" at \$99.05 and that is why I rated it 4-stars instead of 5. I just started teaching a technical electronics course at ITT Technical Institute which uses this book as its main text. I was a little rusty on several topics when I realized that I was again becoming proficient as I was teaching the material with the aid of this book. The author treats each topic in a clear and concise manner. The examples he uses are relevant and an excellent choice for each topic. As a side note, most if not all electronic textbooks are full of distracting errors and this book seems to have kept them down to a minimum. I commend the author for this observance to detail. Also, he changed simulation programs from PSpice to Electronic Workbench. I can not figure out why when PSpice is sort of an "industry standard". Anyway, I have learned to use yet another simulation program. I have added

this book to my special collection of technical references. J.W. Heckendorf.

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