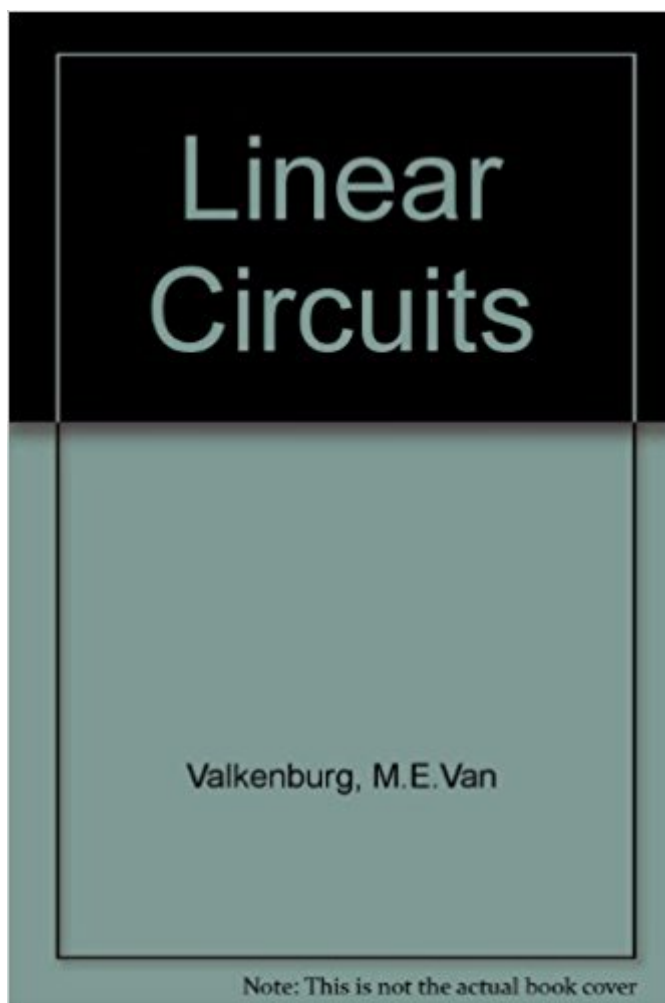


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# Linear Circuits



## Synopsis

Basic topics included are: the Kirchhoff laws, an introduction to time domain, the sinusoidal steady state and the concept of impedance, Fourier methods, and the operational amplifier or "op amp". This book features numerous examples, exercises, and end-of-chapter problems, includes the development of Bode plots, stresses concepts rather than mathematical developments, and topics essential to electric circuits.

## Book Information

Hardcover: 448 pages

Publisher: Prentice Hall College Div (February 1982)

Language: English

ISBN-10: 0135367220

ISBN-13: 978-0135367223

Package Dimensions: 9.3 x 7.1 x 1 inches

Shipping Weight: 1.9 pounds

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #840,024 in Books (See Top 100 in Books) #110 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Power Systems](#) #4015 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics](#) #4605 in [Books > Science & Math > Nature & Ecology > Conservation](#)

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This is an introductory text, on the subject of linear networks. Beginning with an explanation of what voltage and current are, the book works through Ohms and Kirchhoff's laws, Thevinin and Norton equivalent circuits, loop and node analyses, RLC circuits, AC circuits, Fourier series and transforms, operational amplifiers, Bode plots and filters.

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