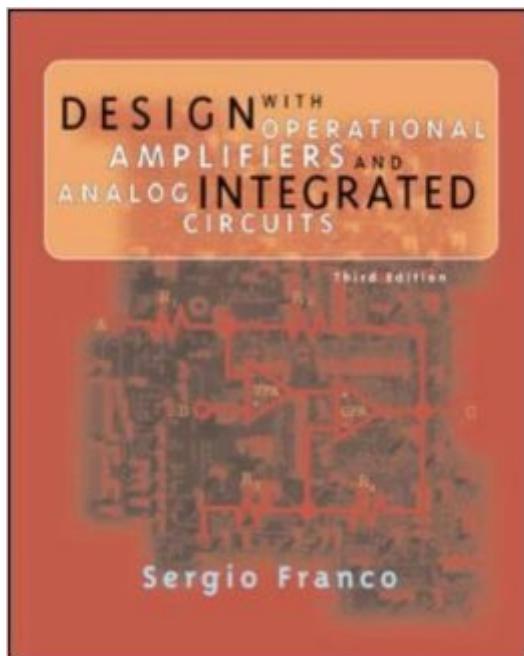


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Design With Operational Amplifiers And Analog Integrated Circuits



Synopsis

Franco's "Design with Operational Amplifiers and Analog Integrated Circuits, 3e" is intended for a design-oriented course in applications with operational amplifiers and analog ICs. It also serves as a comprehensive reference for practicing engineers. This new edition includes enhanced pedagogy (additional problems, more in-depth coverage of negative feedback, more effective layout), updated technology (current-feedback and folded-cascode amplifiers, and low-voltage amplifiers), and increased topical coverage (current-feedback amplifiers, switching regulators and phase-locked loops).

Book Information

Series: McGraw-Hill Series in Electrical and Computer Engineering

Hardcover: 658 pages

Publisher: McGraw-Hill; 3 edition (August 8, 2001)

Language: English

ISBN-10: 0072320842

ISBN-13: 978-0072320848

Product Dimensions: 7.5 x 1.2 x 9.5 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 starsÂ See all reviewsÂ (28 customer reviews)

Best Sellers Rank: #193,938 in Books (See Top 100 in Books) #30 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Integrated #58 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design #331 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics

Customer Reviews

This book can be an excellent resource for any Analog Integrated Circuit Design Electrical Engineering student or practicing engineer. The book can assist in the modeling of IC devices such as transistors, resistors, and capacitors. It also sensibly covers the building blocks of analog integrated circuits: gain stages, output stages, level shifters, current sources and mirrors. The reader is expected to have a general understanding of electronics, frequency-domain analysis procedures, and understand basic Pspice operations. The book generally covers enough material for a half-year of courses at the upper-division/graduate level although the book could certainly be useful for a single class. The material generally starts out as basic and proceeds to a complex level. There are helpful figures and diagrams on nearly every page and the organization is generally sensible and

intuitive. There are many worked examples and hundreds of end-of-chapter problems. The text is supported by a website that offers downloadable design projects, additional examples, and design software. Franco has done an admirable job at presenting a complicated subject. Here's a brief description of SOME of the topics found in each chapter:1) Basic amplifier concepts and arrangements are explored. Also covers negative feedback, the loop gain, and basic circuit analysis.2) Current-to-Voltage & Voltage-to-Current Converters, Current, Difference, Instrumentation, and Transducer Bridge Amplifiers.3) Active Filters. Transfer Function, 1st order, KRC, multiple-feedback, state-variable, audio, and biquad filters.4) Filter Approximations, switched-capacitor, universal sc filters, and cascade design.

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