



Current feedback operational amplifiers and their applications /

Senani, Raj

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Electronic books

Ebook

Monografía

This book describes a variety of current feedback operational amplifier (CFOA) architectures and their applications in analog signal processing/generation. Coverage includes a comprehensive survey of commercially available, off-the-shelf integrated circuit CFOAs, as well as recent advances made on the design of CFOAs, including design innovations for bipolar and CMOS CFOAs. This book serves as a single-source reference to the topic, as well as a catalog of over 200 application circuits which would be useful not only for students, educators and researchers in apprising them about the recent developments in the area but would also serve as a comprehensive repertoire of useful circuits for practicing engineers who might be interested in choosing an appropriate CFOA-based topology for use in a given application

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Contenido: Introduction -- CFOAs: Merits, Demerits, Basic Circuits and Available Varieties -- Simulation of Inductors and Other Types of Impedances Using CFOAs -- Design of Filters Using CFOAs -- Synthesis of Sinusoidal Oscillators Using CFOAs -- Miscellaneous Linear and Nonlinear Applications of CFOAs -- Realization of Other Building Blocks Using CFOAs -- Advances in the Design of Bipolar/CMOS CFOAs and Future Directions of Research on CFOAs

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Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es