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Introduction to CMOS OP-AMPS and Comparators (Hardback)

By Roubik Gregorian

John Wiley and Sons Ltd, United States, 1999. Hardback. Book Condition: New. New.. 242 x 156 mm. Language: English . Brand New Book. A step-by-step guide to the design and analysis of CMOS operational amplifiers and comparators This volume is a comprehensive text that offers a detailed treatment of the analysis and design principles of two of the most important components of analog metal oxide semiconductor (MOS) circuits, namely operational amplifiers (op-amps) and comparators. The book covers the physical operation of these components, their design procedures, and applications to analog MOS circuits-particularly those involving switched-capacitor circuits, and analog-to-digital (A/D) and digital-to-analog (D/A) converters. Roubik Gregorian, a leading authority in the field, gives circuit designers the technical knowledge they need to design high-performance op-amps and comparators suitable for most analog circuit applications. In this self-contained treatment, which is loosely based on his well-received 1986 book, Analog MOS Integrated Circuits for Signal Processing (coauthored with Gabor C. Temes), Gregorian reviews the required basics before advancing to state-of-the-art topics and problem-solving techniques. This valuable guide: Clearly explains configuration and performance limitation issues affecting the operation of CMOS op-amps and comparators Details advanced design procedures to improve performance Provides practical design examples suitable for...



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