



# Introduction to CMOS OP-AMPs and Comparators

*Roubik Gregorian*

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## **Introduction to CMOS OP-AMPs and Comparators** Roubik Gregorian

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 a broad range of analog circuit applications
- \* Incorporates hundreds of illustrations into the text
- \* Concludes each chapter with problems and references to advanced topics, useful in textbook adoptions

Introduction to CMOS Op-Amps and Comparators is invaluable for analog and mixed-signal designers, for senior and graduate students in electrical engineering, and for anyone who would like to keep up with this essential technology.



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