

1. Record Nr.	UNINA9910465354203321
Autore	Dehghani Rasoul
Titolo	Design of CMOS operational amplifiers / / Rasoul Dehghani
Pubbl/distr/stampa	Boston : , : Artech House, , [2013] [Piscataway, New Jersey] : , : IEEE Xplore, , [2013]
ISBN	1-60807-154-5
Descrizione fisica	1 online resource (205 p.)
Collana	Artech House microwave library
Disciplina	621.395
Soggetti	Metal oxide semiconductors, Complementary Operational amplifiers Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Basic specifications of op amps -- Chapter 2. CMOS technology and physics -- Chapter 3. CMOS differential amplifiers -- Chapter 4. CMOS single-ended output op amps -- Chapter 5. CMOS fully differential op amps -- Chapter 6. CMOS output stages -- Chapter 7. CMOS reference generators.
Sommario/riassunto	This cutting-edge volume provides an analytical method for designing CMOS Op Amp circuits, placing emphasis on the practical aspects of the design process. It takes an in-depth look at CMOS differential amplifiers, explaining how they are the main part of all Op Amps. It presents important details and a design method for the different architectures of single ended Op Amps. There are complete chapters dedicated to the critical issues of CMOS output stages, fully differential Op Amps, and CMOS reference generators. This resource also includes an introduction to CMOS technology and the basics of the physical aspects of MOS transistors, providing the foundation needed to fully master the material. --