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This volume concentrates on three topics: mixed analog--digital circuit design, sensor interface circuits and communication circuits. The book comprises six papers on each topic of a tutorial nature aimed at improving the design of analog circuits. The book is divided into three parts. Part I: Mixed Analog--Digital Circuit Design considers the largest growth area in microelectronics. Both standard designs and ASICs have begun integrating analog cells and digital sections on the same chip. The papers cover topics such as groundbounce and supply-line spikes, design methodologies for high-level design and actual mixed analog--digital designs. Part II: Sensor Interface Circuits describes various types of signal conditioning circuits and interfaces for sensors. These include interface solutions for capacitive sensors, sigma--delta modulation used to combine a microprocessor compatible interface with on chip CMOS sensors, injectable sensors and responders, signal conditioning circuits and sensors combined with indirect converters. Part III: Communication Circuits concentrates on systems and implemented circuits for use in personal communication systems. These have applications in cordless telephones and mobile telephone systems for use in cellular networks. A major requirement for these systems is low power consumption, especially when operating in standby mode, so as to maximise the time between battery recharges.

This new book on Analog Circuit Design contains the revised contributions of all the tutorial speakers of the eight workshop AACD (Advances in Analog Circuit Design), which was held at Nice, France on March 23-25, 1999. The workshop was organized by Yves Leduc of TI Nice, France. The program

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committee consisted of Willy Sansen, K.U.Leuven, Belgium, Han Huijsing, T.U.Delft, The Netherlands and Rudy van de Plassche, T.U.Eindhoven, The Netherlands. The aim of these AACD workshops is to bring together a restricted group of about 100 people who are personally advancing the frontiers of analog circuit design to brainstorm on new possibilities and future developments in a restricted number of fields. They are concentrated around three topics. In each topic six speakers give a tutorial presentation. Eighteen papers are thus included in this book. The topics of 1999 are: (X)DSL and other communication systems RF MOST models Integrated filters and oscillators The other topics, which have been covered before, are: 1992 Operational amplifiers A-D Converters Analog CAD 1993 Mixed-mode A+D design Sensor interfaces Communication circuits 1994 Low-power low-voltage design Integrated filters Smart power 1995 Low-noise low-power low-voltage design Mixed-mode design with CAD tools Voltage, current and time references vii viii 1996 RF CMOS circuit design Bandpass sigma-delta and other data converters Translinear circuits 1997 RF A-D Converters Sensor and actuator interfaces Low-noise oscillators, PLL's and synthesizers 1998 I-Volt electronics Design and implementation of mixed-mode systems Low-noise amplifiers and RF power amplifiers for telecommunications

This truly outstanding book, first published in Russian in the 70s and regarded there as a classic, contains everything you need to know about delivering checkmate.

Special Features: · Written by the author of the best-seller, CMOS: Circuit Design, Layout, and Simulation· Fills a hole in the technical literature for an advanced-tutorial book on mixed-signal circuit design from a circuit designer's point of view· Presents more advance topics, and will be an excellent

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companion to the first volume About The Book: This book will fill a hole in the technical literature for an advanced-tutorial book on mixed-signal circuit design. There are no competitors in this area. Mixed-signal design is performed in industry by a select few gurus . The techniques can be found in hard-to-digest technical papers.

Johan H. Huijsing This book contains 18 tutorial papers concentrated on 3 topics, each topic being covered by 6 papers. The topics are: Low-Noise, Low-Power, Low-Voltage Mixed-Mode Design with CAD Tools Voltage, Current, and Time References The papers of this book were written by top experts in the field, currently working at leading European and American universities and companies. These papers are the reviewed versions of the papers presented at the Workshop on Advances in Analog Circuit Design. which was held in Villach, Austria, 26-28 April 1995. The chairman of the Workshop was Dr. Franz Dielacher from Siemens, Austria. The program committee existed of Johan H. Huijsing from the Delft University of Technology, Prof. Willy Sansen from the Catholic University of Leuven, and Dr. Rudy 1. van der Plassche from Philips Eindhoven. This book is the fourth of a series dedicated to the design of analog circuits. The topics which were covered earlier were: Operational Amplifiers Analog to Digital Converters Analog Computer Aided Design Mixed A/D Circuit Design Sensor Interface Circuits Communication Circuits Low-Power, Low-Voltage Integrated Filters Smart Power As the Workshop will be continued year by year, a valuable series of topics will be built up from all the important areas of analog circuit design. I hope that this book will help designers of analog circuits to improve their work and to speed it up.

Market_Desc: Engineers Special Features: " Updates the coverage of bipolar technologies" Enhances the

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discussion of biCMOS" Provides a more unified treatment of digital and analog circuit design while strengthening the coverage of CMOS" Removes the chapter on non-linear analog circuits" Adds a new operational amplifier example to chapter 11 About The Book: This is the only comprehensive book in the market for engineers that covers CMOS, bipolar technologies, and biCMOS integrated circuits. The fifth edition retains its completeness, updates the coverage of bipolar technologies, and enhances the discussion of biCMOS. It provides a more unified treatment of digital and analog circuit design while strengthening the coverage of CMOS. The chapter on non-linear analog circuits has been removed and chapter 11 has been updated to include an operational amplifier example. With its streamlined and up-to-date coverage, more engineers can turn to this resource to explore key concepts in the field.

An expert guide to the new and emerging field of broadband circuits for optical fiber communication This exciting publication makes it easy for readers to enter into and deepen their knowledge of the new and emerging field of broadband circuits for optical fiber communication. The author's selection and organization of material have been developed, tested, and refined from his many industry courses and seminars. Five types of broadband circuits are discussed in detail: * Transimpedance amplifiers * Limiting amplifiers * Automatic gain control (AGC) amplifiers * Lasers drivers * Modulator drivers Essential background on optical fiber, photodetectors, lasers, modulators, and receiver theory is presented to help readers understand the system environment in which these broadband circuits operate. For each circuit type, the main specifications and their impact on system performance are explained and illustrated with numerical values. Next, the circuit concepts are discussed and illustrated with practical implementations. A broad range of circuits in MESFET, HFET, BJT, HBT, BiCMOS, and CMOS technologies is covered. Emphasis is on circuits for digital, continuous-mode transmission in the 2.5 to 40

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Gb/s range, typically used in SONET, SDH, and Gigabit Ethernet applications. Burst-mode circuits for passive optical networks (PON) and analog circuits for hybrid fiber-coax (HFC) cable-TV applications also are discussed. Learning aids are provided throughout the text to help readers grasp and apply difficult concepts and techniques, including: * Chapter summaries that highlight the key points * Problem-and-answer sections to help readers apply their new knowledge * Research directions that point to exciting new technological breakthroughs on the horizon * Product examples that show the performance of actual broadband circuits * Appendices that cover eye diagrams, differential circuits, S-parameters, transistors, and technologies * A bibliography that leads readers to more complete and in-depth treatment of specialized topics This is a superior learning tool for upper-level undergraduates and graduate-level students in circuit design and optical fiber communication. Unlike other texts that concentrate on analog circuits in general or mostly on optics, this text provides balanced coverage of electronic, optic, and system issues. Professionals in the fiber optic industry will find it an excellent reference, incorporating the latest technology and discoveries in the industry.

The 2nd Edition of Analog Integrated Circuit Design focuses on more coverage about several types of circuits that have increased in importance in the past decade. Furthermore, the text is enhanced with material on CMOS IC device modeling, updated processing layout and expanded coverage to reflect technical innovations. CMOS devices and circuits have more influence in this edition as well as a reduced amount of text on BiCMOS and bipolar information. New chapters include topics on frequency response of analog ICs and basic theory of feedback amplifiers.

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