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The purpose of this book is to provide a complete working knowledge of the Complementary Metal-Oxide Semiconductor (CMOS) analog and mixed-signal circuit design, which can be applied for System on Chip (SOC) or Application-Specific Standard Product (ASSP) development. It begins with an introduction to the CMOS analog and mixed-signal circuit design with further coverage of basic devices, such as the Metal-Oxide Semiconductor Field-Effect Transistor (MOSFET) with both long- and short-channel

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operations, photo devices, fitting ratio, etc. Seven chapters focus on the CMOS analog and mixed-signal circuit design of amplifiers, low power amplifiers, voltage regulator-reference, data converters, dynamic analog circuits, color and image sensors, and peripheral (oscillators and Input/Output [I/O]) circuits, and Integrated Circuit (IC) layout and packaging. Features: Provides practical knowledge of CMOS analog and mixed-signal circuit design Includes recent research in CMOS color and image sensor technology Discusses sub-blocks of typical analog and mixed-signal IC products

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Illustrates several design examples of analog circuits together with layout Describes integrating based CMOS color circuit

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

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information. New chapters include topics on frequency response of analog ICs and basic theory of feedback amplifiers.

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

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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.

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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 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

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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

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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

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Focussing on micro- and nanoelectronics design and technology, this book provides thorough analysis and demonstration, starting from semiconductor devices to VLSI fabrication, designing (analog and digital), on-chip interconnect modeling culminating with emerging non-silicon/ nano devices. It gives detailed description of both theoretical as well as industry standard HSPICE, Verilog, Cadence simulation based real-time modeling approach with focus on fabrication of bulk and nano-devices. Each chapter of this proposed title starts with a brief introduction of the presented topic and

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ends with a summary indicating the futuristic aspect including practice questions. Aimed at researchers and senior undergraduate/graduate students in electrical and electronics engineering, microelectronics, nanoelectronics and nanotechnology, this book: Provides broad and comprehensive coverage from Microelectronics to Nanoelectronics including design in analog and digital electronics. Includes HDL, and VLSI design going into the nanoelectronics arena. Discusses devices, circuit analysis, design methodology, and real-time simulation based on industry standard HSPICE tool.

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Explores emerging devices such as FinFETs, Tunnel FETs (TFETs) and CNTFETs including their circuit co-designing. Covers real time illustration using industry standard Verilog, Cadence and Synopsys simulations.

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,

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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

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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 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

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techniques, including:

- * Chapter summaries that highlight the key points
- * Problem-and-answer sections to help readers apply their newknowledge
- * Research directions that point to exciting new technologicalbreakthroughs on the horizon
- * Product examples that show the performance of actual broadbandcircuits
- * Appendices that cover eye diagrams, differential circuits, Sparameters, transistors, and technologies
- * A bibliography that leads readers to more complete and in-depthtreatment of specialized topics

This is a superior learning tool for upper-level undergraduates andgraduate-level

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students in circuit design and optical fibercommunication. Unlike other texts that concentrate on analogcircuits in general or mostly on optics, this text providesbalanced coverage of electronic, optic, and system issues. Professionals in the fiber optic industry will find it an excellentreference, incorporating the latest technology and discoveries inthe industry.

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

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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

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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

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improve their work and to speed it up.

Shrinking pixel sizes along with improvements in image sensors, optics, and electronics have elevated DSCs to levels of performance that match, and have the potential to surpass, that of silver-halide film cameras. Image Sensors and Signal Processing for Digital Still Cameras captures the current state of DSC image acquisition and signal processing technology and takes an all-inclusive look at the field, from the history

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of DSCs to future possibilities. The first chapter outlines the evolution of DSCs, their basic structure, and their major application classes. The next few chapters discuss high-quality optics that meet the requirements of better image sensors, the basic functions and performance parameters of image sensors, and detailed discussions of both CCD and CMOS image sensors. The book then discusses how color theory affects the uses of DSCs, presents basic image processing and camera control algorithms and examples of advanced image processing algorithms, explores the architecture and required performance of

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signal processing engines, and explains how to evaluate image quality for each component described. The book closes with a look at future technologies and the challenges that must be overcome to realize them. With contributions from many active DSC experts, *Image Sensors and Image Processing for Digital Still Cameras* offers unparalleled real-world coverage and opens wide the door for future innovation.

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