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The only book on integrated circuits for optical communications that fully covers High-Speed IOs, PLLs, CDRs, and transceiver design including optical communication The increasing demand for high-speed transport of data has revitalized optical communications, leading to extensive work on high-speed device and circuit design. With the proliferation of the Internet and the rise in the speed of microprocessors and memories, the transport of data continues to be the bottleneck, motivating work on faster communication channels. Design of Integrated Circuits for Optical Communications, Second Edition deals with the design of high-speed integrated circuits for optical communication transceivers. Building upon a detailed understanding of optical devices, the book describes the analysis and design of critical building blocks, such as transimpedance and limiting amplifiers, laser drivers, phase-locked loops, oscillators, clock and data recovery circuits, and multiplexers. The Second Edition of this bestselling

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textbook has been fully updated with: A tutorial treatment of broadband circuits for both students and engineers New and unique information dealing with clock and data recovery circuits and multiplexers A chapter dedicated to burst-mode optical communications A detailed study of new circuit developments for optical transceivers An examination of recent implementations in CMOS technology This text is ideal for senior graduate students and engineers involved in high-speed circuit design for optical communications, as well as the more general field of wireline communications.

Featuring an extensive 40 page tutorial introduction, this carefully compiled anthology of 65 of the most important papers on phase-locked loops and clock recovery circuits brings you comprehensive coverage of the field-all in one self-contained volume. You'll gain an understanding of the analysis, design, simulation, and implementation of phase-locked loops and clock recovery circuits in CMOS and bipolar technologies along with valuable insights into the issues and trade-offs associated with phase locked systems for high speed, low power, and low noise.

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 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 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

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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.

A transistor-level, design-intensive overview of high speed and high frequency monolithic integrated circuits for wireless and broadband systems from 2 GHz to 200 GHz, this comprehensive text covers high-speed, RF, mm-wave, and optical fibre circuits using nanoscale CMOS, SiGe BiCMOS, and III-V technologies. Step-by-step design methodologies, end-of chapter problems, and practical simulation and design projects are provided, making this an ideal resource for senior undergraduate and graduate courses in circuit design. With an emphasis on device-circuit topology interaction and optimization, it gives circuit designers and students alike an in-depth understanding of device structures and process limitations affecting circuit performance.

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

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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 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. 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.

Analog-to-digital (A/D) and digital-to-analog (D/A) converters provide the link between the analog world of transducers and the digital world of signal processing, computing and other digital data collection or data processing systems. Several types of converters have been designed, each using the best available technology at a given time for a given application. For example, high-performance bipolar and MOS technologies have resulted in the design of high-resolution or high-speed converters with applications in digital audio and video systems. In addition, high-speed bipolar technologies enable

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conversion speeds to reach the gigaHertz range and thus have applications in HDTV and digital oscilloscopes. Integrated Analog-to-Digital and Digital-to-Analog Converters describes in depth the theory behind and the practical design of these circuits. It describes the different techniques to improve the accuracy in high-resolution A/D and D/A converters and also special techniques to reduce the number of elements in high-speed A/D converters by repetitive use of comparators. Integrated Analog-to-Digital and Digital-to-Analog Converters is the most comprehensive book available on the subject. Starting from the basic elements of theory necessary for a complete understanding of the design of A/D and D/A converters, this book describes the design of high-speed A/D converters, high-accuracy D/A and A/D converters, sample-and-hold amplifiers, voltage and current reference sources, noise-shaping coding and sigma-delta converters. Integrated Analog-to-Digital and Digital-to-Analog Converters contains a comprehensive bibliography and index and also includes a complete set of problems. This book is ideal for use in an advanced course on the subject and is an essential reference for researchers and practicing engineers.

In December 2019, the world witnessed the occurrence of a new coronavirus to humanity. The disease spread quickly and became known as a pandemic globally, affecting both society and the health care system, both the elderly and young groups of people, and both the men's and women's groups. It was a universal challenge that immediately caused a surge in scientific research. Be a part of a

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world rising in fighting against the pandemic, the Coronavirus Disease - COVID-19 was depicted in the early days of the pandemic, but updated by more than 200 scientists and clinicians to include many facets of this new infectious pandemic, including i, characteristics, ecology, and evolution of coronaviruses; ii, epidemiology, genetics, and pathogenesis (immune responses and oxidative stress) of the disease; iii, diagnosis, prognosis, and clinical manifestations of the disease in pediatrics, geriatrics, pregnant women, and neonates; iv, challenges of co-occurring the disease with tropical infections, cardiovascular diseases, hypertension, and cancer and to the settings of dentistry, hematology, ophthalmology, and pharmacy; v, transmission, prevention, and potential treatments, ranging from supportive ventilator support and nutrition therapy to potential virus- and host-based therapies, immune-based therapies, photobiomodulation, antiviral photodynamic therapy, and vaccines; vi, the resulting consequences on social lives, mental health, education, tourism industry and economy; and vii, multimodal approaches to solve the problem by bioinformatic methods, innovation and ingenuity, globalization, social and scientific networking, interdisciplinary approaches, and art integration. We are approaching December 2020 and the still presence of COVID-19, asking us to call it COVID (without 19).

The use of nanotechnologies in the food-packaging area has opened up a number of possibilities derived from the inherent characteristics of nanoadditives, which can either improve relevant properties of neat

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polymers (such as barrier or mechanical properties) or introduce new functionalities (for active and bioactive packaging applications or even for sensing). This is an exciting and rapidly growing field of study, and very interesting developments are unfolding. Although the aim of these novel materials is to improve packaged food quality and safety, the toxicological effects derived from their potential migration from the polymer structures is also under consideration. This Special Issue compiles a review and five original papers describing novel nanocomposites with improved packaging properties, the use of nanotechnologies for smart packaging applications, and nanoparticle migration studies from novel nanocomposites.

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