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performance, reliability and efficiency of equipment increased tremendously. This book gives a basic concept of digital techniques and then introduces simple function to complex functions. It uses SSI and MSI, TTL ICs of the most commonly available 54/74 series. The book will be useful to students of

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For those with a basic understanding of digital design, this book teaches the essential skills to design digital integrated circuits using Verilog and the relevant extensions of SystemVerilog. In addition to covering the syntax of Verilog and SystemVerilog, the author provides an

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appreciation of design challenges and solutions for producing working circuits. The book covers not only the syntax and limitations of HDL coding, but deals extensively with design problems such as partitioning and synchronization, helping you to produce designs that are not only

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logically correct, but will actually work when turned into physical circuits. Throughout the book, many small examples are used to validate concepts and demonstrate how to apply design skills. This book takes readers who have already learned the fundamentals of digital design to the

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point where they can produce working circuits using modern design methodologies. It clearly explains what is useful for circuit design and what parts of the languages are only software, providing a non-theoretical, practical guide to robust, reliable and optimized hardware design and

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development. Produce working hardware: Covers not only syntax, but also provides design know-how, addressing problems such as synchronization and partitioning to produce working solutions Usable examples: Numerous small examples throughout the book demonstrate

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Essential knowledge: Covers the vital
design topics of synchronization,
essential for producing working silicon;
asynchronous interfacing techniques;
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Over the past decade, we have witnessed a number of spectacular advances in the fabrication of crystalline semiconductor devices due

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mainly to the progress of the different techniques of heteroepitaxy. The discovery of two dimensional behavior of electrons led to the development of a new breed of ultrafast electronic and optical devices, such as modulation doped FETs, permeable base transistors, and double heterojunction

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transistors. Comparable progress has been made in the domain of cryoelectronics, ultrashort pulse generation, and ultrafast diagnostics.

Dye lasers can generate 8 fs signals after compression, diode lasers can be modulated at speeds close to 20 GHz and electrical signals are

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Characterized with subpicosecond accuracy via the electro-optic effect. Presently, we are experiencing an important interplay between the field of optics and electronics; the purpose of this meeting was to foster and enhance the interaction between the two disciplines. It was logical to start

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the conference by presenting to the two different audiences, i. e. , electronics and optics, the state-of-the-art in the two res pective fields and to highlight the importance of optical techniques in the analysis of physical processes and device performances. One of the leading techniques in this

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area is the electro-optic sampling technique. This optical technique has been used to characterize transmission lines and GaAs devices. Carrier transport in semiconductors is of fundamental importance and some of its important aspects are stressed in these proceedings.

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For some time there has been a need for a semiconductor device book that carries diode and transistor theory beyond an introductory level and yet has space to touch on a wider range of semiconductor device principles and applications. Such topics are covered

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in specialized monographs numbering many hundreds, but the voluminous nature of this literature limits access for students. This book is the outcome of attempts to develop a broad course on devices and integrated electronics for university students at about senior-year level. The educational

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prerequisites are an introductory course in semiconductor junction and transistor concepts, and a course on analog and digital circuits that has introduced the concepts of rectification, amplification, oscillators, modulation and logic and Switching circuits. The book should also be of

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value to professional engineers and physicists because of both, the information included and the detailed guide to the literature given by the references. The aim has been to bring some measure of order into the subject area examined and to provide a basic structure from which teachers

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Circuits And Systems may develop themes that are of most interest to students and themselves. Semiconductor devices and integrated circuits are reviewed and fundamental factors that control power levels, frequency, speed, size and cost are discussed. The text also briefly mentions how devices are used and

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presents circuits and comments on representative applications. Thus, the book seeks a balance between the extremes of device physics and circuit design.

An essential companion to John C Morris's 'Analogue Electronics', this

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Circuits And Systems is designed for electronics students, teachers and enthusiasts who already have a basic understanding of electronics, and who wish to develop their knowledge of digital techniques and applications. Employing a discovery-based approach, the author covers

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fundamental theory before going on to develop an appreciation of logic networks, integrated circuit applications and analogue-digital conversion. A section on digital fault finding and useful ic data sheets completes the book.

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