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Thiagarajan Viswanathan (Ph.D. Manchester), was Director, Indian National Scientific Documentation Centre (INSDOC) and Professor, Department of Electrical Communication Engineering, and Supercomputer Education and Research Centre, Indian Institute of Science, Bangalore. Prior to joining the IISc, he served with distinction the Indian Space Research Organisation in various capacities. An engineer by profession, Professor Viswanathan had rich experience in the design and development of digital ...

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Language: English. Size: 9.59 Mb. Pages: 507. Format: Pdf. Year: 1992. Edition: 1. Author: Viswanathan Thiagarajan. Contents Of The Book: Chapter 1: Introduction. Chapter 2: Strowger Switching Systems. Chapter 3: Crossbar Switching. Chapter 4: Electronic Space Division Switching.

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The rapid expansion of the field of telecommunication networks call for a new edition to assist the readers with development of understanding towards new telecommunication technologies. This well-accepted textbook, now in its Second Edition, is designed for the final-year undergraduate and the first-year graduate students in electronics and communication engineering and allied subjects. It fulfils the need for a suitable textbook in the area of telecommunication switching systems and networks. The text

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Covers, in a single volume, both switching systems and telecommunications networks. The book begins with a brief discussion on the evolution of telecommunication. It then goes on to give a classification scheme for switching systems, and describes the basic components of a switching system and the fundamental concepts of network structures. It provides an in-depth coverage of fibre optic communication system and the traffic engineering concepts. A distinguishing feature of the book is the thorough treatment of the most important telecommunication networks, viz. the public switched telephone network (PSTN), the public data network (PDN), and the integrated services digital network (ISDN). Worked-out examples and exercises would be of considerable assistance to the reader in understanding all aspects of telecommunication engineering. NEW TO THIS EDITION □ Sections on SONET, WDM, and DWDM in Chapter 7 □ New section on Broadband ISDN and related technologies in Chapter 11 □ A new chapter on Mobile Communication which covers almost all aspects of the cell planning and mobile channels □ A new chapter on Satellite Communication which gives sufficient introductory knowledge of the satellites, satellite orbits, and orbital theory □ Satellite link budget analysis (with examples) in Chapter 13.

This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into

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system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. **KEY FEATURES :** Includes several fully worked-out examples to help students master the concepts involved. Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. Gives chapter-end review questions and problems to assist students in reinforcing their knowledge.

This book is designed to introduce object-oriented programming (OOP) in C++ and Java, and is divided into four areas of coverage: Preliminaries: Explains the basic features of C, C++, and Java such as data types, operators, control structures, storage classes, and array structures. Part I : Covers classes, objects, data abstraction, function overloading, information hiding, memory management, inheritance, binding, polymorphism, class template using working illustrations based on simple concepts. Part II : Discusses all the paradigms of Java programming with ready-to-use programs. Part III : Contains eight Java packages with their full structures. The book offers straightforward explanations of the concepts of OOP and discusses the use of C++ and Java in OOP through small but effective illustrations. It is ideally suited for undergraduate/postgraduate courses in computer science. The IT professionals should also find the book useful.

The volume presents high quality papers presented at the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017). The book discusses recent trends in technology and advancement in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing,

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bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes original papers based on original theoretical, practical, experimental, simulations, development, application, measurement, and testing. The applications and solutions discussed in the book will serve as a good reference material for future works.

This Book, Telecommunication Switching And Networks Is Intended To Serve As A Textbook For Undergraduate Course Of Information Technology, Electronics And Communication Engineering, And Telecommunication Engineering. Telecommunication Switching Is Fastgrowing Field And Enormous Research And Development Are Undertaken By Various Organisations And Firms. This Book Provides An In-Depth Knowledge On Telecommunication Switching And A Good Background For Advanced Studies In Communication Networks. For Best Understanding, More Diagrams (202), Tables (35) And Related Websites, Which Provide Sufficient Information Have Been Added.

This book presents the first comprehensive treatment of analog VLSI design for signal and information processing applications by blending the basic design concepts of both traditional and contemporary analog VLSI. The breadth and level of details of topics covered are unique, reflecting the birth of a new generation of analog VLSI circuits. Each chapter provides basic introductory material in a tutorial manner, with examples or case studies at the circuit and/or system level. Outstanding features of the text include coverage of the latest in analog VLSI putting students and practicing engineers on the cutting edge of this exciting field;

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thorough coverage of topics unique to this book including low-voltage, BiCMOS, current-mode and neural information processing, oversampled data converters, statistical design, analog testability, analog CAD, analog layout, and analog VLSI interconnects; avoids lengthy coverage of device physics and IC fabrication and goes straight to the design and applications of analog VLSI circuits; extensive use of SPICE in numerous examples and problem sets; worked examples (from a realistic-silicon chip) and end-of-chapter problems assist reader comprehension; and an instructor's manual containing a complete listing of problem solutions and SPICE netlists.

This book explains how telecommunications networks work. It uses straightforward language supported by copious block-schematic diagrams so that non-engineers and engineers alike can learn about the principles of fixed and mobile telecommunications networks carrying voice and data. The book covers all aspects of today's networks, including how they are planned, formed and operated, plus next generation networks and how they will be implemented. After an introductory chapter on telephony the book briefly describes all of today's networks – PSTN, mobile, cable television, the Internet, etc. – and considers how they interconnect. Individual chapters then consider the principles, technologies and network structures relating to transmission, circuit switching, signalling and control, data (including voice-over-IP) networks, and mobile networks. The important subject of numbering and addressing for telephony and IP is then covered. The book concludes with a chapter designed to pull everything together, considering architecture, quality of service and performance, operations and network evolution. Despite the rapid changes taking place in telecommunications today - covering customer expectations, commercial arrangements, regulation, markets and services, as well as technology - this book's coverage of the basic principles makes it a helpful and enduring reference for undergraduate and

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postgraduate students, and for professionals working in the industry.

Facilitating Cooperation for Wireless Systems Cooperative Communications: Hardware, Channel & PHY focuses on issues pertaining to the PHY layer of wireless communication networks, offering a rigorous taxonomy of this dispersed field, along with a range of application scenarios for cooperative and distributed schemes, demonstrating how these techniques can be employed. The authors discuss hardware, complexity and power consumption issues, which are vital for understanding what can be realized at the PHY layer, showing how wireless channel models differ from more traditional models, and highlighting the reliance of PHY algorithm performance on the underlying channel models. Numerous transparent and regenerative relaying protocols are described in detail for a variety of transparent and regenerative cooperative schemes. Key Features: Introduces background, concepts, applications, milestones and thorough taxonomy Identifies the potential in this emerging technology applied to e.g. LTE/WiMAX, WSN Discusses latest wireless channel models for transparent and regenerative protocols Addresses the fundamentals as well as latest emerging PHY protocols Introduces transparent distributed STBC, STTC, multiplexing and beamforming protocols Quantifies regenerative distributed space-time, channel and network coding protocols Explores system optimization, such as distributed power allocation and relay selection Introduces and compares analog and digital hardware architectures Quantifies complexity, memory and power consumption of 3G UMTS & 4G LTE/WiMAX relay Highlights future research challenges within the cooperative communications field This book is an invaluable guide for professionals and researchers in communications fields. It will also be of interest to graduates of communications and electronic engineering courses. It forms part of an entire series dedicated to cooperative wireless systems.

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