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The second edition of this popular engineering reference book, previously titled Newnes Electrical Engineer's Handbook, provides a basic understanding of the underlying theory and operation of the major classes of electrical equipment. With coverage including the key principles of electrical engineering and the design and operation of electrical equipment, the book uses clear descriptions and logical presentation of data to explain electrical power and its applications. Each chapter is written by leading professionals and academics, and many sections conclude with a summary of key standards. The new edition is updated in line with recent advances in EMC, power quality and the structure and operation of power systems, making Newnes Electrical Power Engineer's Handbook an invaluable guide for today's electrical power engineer.

- A unique, concise reference book with contributions from eminent professionals in the field
- Provides straightforward and practical explanations, plus key information needed by engineers on a day-to-day basis
- Includes a summary of key standards at the end of

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each chapter

Newnes Circuits Manuals and Users' Handbooks by Ray Marston cover a wide range of electronics subjects in an easy-to-read and non-mathematical manner, presenting the reader with many practical applications and circuits. They are specifically written for the practising design engineer, technician, and the experimenter, as well as the electronics student and amateur. The ICs and other devices used in the practical circuits are modestly priced and readily available types, with universally recognized type numbers.

Mechanical Vibration and Shock Analysis, Second Edition Volume 1: Sinusoidal Vibration The relative and absolute response of a mechanical system with a single degree of freedom is considered for arbitrary excitation, and its transfer function defined in various forms. The characteristics of sinusoidal vibration are examined in the context both of the real world and of laboratory tests, and for both transient and steady state response of the single-degree-of-freedom system. Viscous damping and then nonlinear damping are considered. The various types of swept sine perturbations and their properties are described and, for the one-degree-of-freedom system, the consequence of an inappropriate choice of sweep rate are considered. From the latter, rules governing the choice of suitable sweep rates are developed. The Mechanical Vibration and Shock Analysis five-volume series has been written with both the professional engineer and the academic in mind. Christian Lalanne explores every aspect of vibration and shock, two fundamental and extremely significant areas of mechanical

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engineering, from both a theoretical and practical point of view. The five volumes cover all the necessary issues in this area of mechanical engineering. The theoretical analyses are placed in the context of both the real world and the laboratory, which is essential for the development of specifications.

Presents contributions by a group of specialists working as a team, covering most aspects of fibre optic communication since its inception. Numerical examples help the reader perform calculations associated with fibre optics experiments. Examples show how a representative optical communication system is designed. Material covers theory, technology, design and practical applications.

The most current guide to solid state polymerization Solid State Polymerization (SSP) is an indispensable tool in the design, manufacture, and study of polymers, plastics, and fibers. SSP presents significant advantages over other polymerization techniques due to low operating temperatures, inexpensive equipment, and simple and environmentally sound procedures. Combining fundamentals of polymer science, chemistry, physical chemistry, and engineering, SSP also offers many research applications for a wide range of students and investigators. Gathering and filtering the latest literature on SSP, Solid State Polymerization offers a unique, one-stop resource on this important process. With chapters contributed by leaders in the field, this text summarizes SSP, and provides essential coverage that includes: An introduction to SSP, with chemical and physical steps, apparatus, advantages, and parameters SSP physical chemistry

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and mechanisms Kinetic aspects of polyesters and polyamides SSP Catalysis in SSP processes Application of SSP under high pressure conditions in the laboratory Engineering aspects regarding process modeling and industrial application Recent developments and future possibilities Solid State Polymerization provides the most up-to-date coverage of this constantly developing field to academic and industry professionals, as well as graduate and postgraduate-level students in chemical engineering, materials science and engineering, polymer chemistry, polymer processing and polymer engineering.

The first book on optical OFDM by the leading pioneers in the field The only book to cover error correction codes for optical OFDM Gives applications of OFDM to free-space communications, optical access networks, and metro and long haul transports show optical OFDM can be implemented Contains introductions to signal processing for optical engineers and optical communication fundamentals for wireless engineers This book gives a coherent and comprehensive introduction to the fundamentals of OFDM signal processing, with a distinctive focus on its broad range of applications. It evaluates the architecture, design and performance of a number of OFDM variations, discusses coded OFDM, and gives a detailed study of error correction codes for access networks, 100 Gb/s Ethernet and future optical networks. The emerging applications of optical OFDM, including single-mode fiber transmission, multimode fiber transmission, free space optical systems, and optical access networks are examined, with particular

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attention paid to passive optical networks, radio-over-fiber, WiMAX and UWB communications. Written by two of the leading contributors to the field, this book will be a unique reference for optical communications engineers and scientists. Students, technical managers and telecom executives seeking to understand this new technology for future-generation optical networks will find the book invaluable. William Shieh is an associate professor and reader in the electrical and electronic engineering department, The University of Melbourne, Australia. He received his M.S. degree in electrical engineering and Ph.D. degree in physics both from University of Southern California. Ivan Djordjevic is an Assistant Professor of Electrical and Computer Engineering at the University of Arizona, Tucson, where he directs the Optical Communications Systems Laboratory (OCSL). His current research interests include optical networks, error control coding, constrained coding, coded modulation, turbo equalization, OFDM applications, and quantum error correction. "This wonderful book is the first one to address the rapidly emerging optical OFDM field. Written by two leading researchers in the field, the book is structured to comprehensively cover any optical OFDM aspect one could possibly think of, from the most fundamental to the most specialized. The book adopts a coherent line of presentation, while striking a thoughtful balance between the various topics, gradually developing the optical-physics and communication-theoretic concepts required for deep comprehension of the topic, eventually treating the multiple optical OFDM methods, variations and applications. In my view this book will remain

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relevant for many years to come, and will be increasingly accessed by graduate students, accomplished researchers as well as telecommunication engineers and managers keen to attain a perspective on the emerging role of OFDM in the evolution of photonic networks." -- Prof. Moshe Nazarathy, EE Dept., Technion, Israel Institute of Technology * The first book on optical OFDM by the leading pioneers in the field * The only book to cover error correction codes for optical OFDM * Applications of OFDM to free-space communications, optical access networks, and metro and log haul transports show optical OFDM can be implemented * An introduction to signal processing for optical communications * An introduction to optical communication fundamentals for the wireless engineer

Current data centre networks, based on electronic packet switches, are experiencing an exponential increase in network traffic due to developments such as cloud computing. Optical interconnects have emerged as a promising alternative offering high throughput and reduced power consumption. Optical Interconnects for Data Centers reviews key developments in the use of optical interconnects in data centres and the current state of the art in transforming this technology into a reality. The book discusses developments in optical materials and components (such as single and multi-mode waveguides), circuit boards and ways the technology can be deployed in data centres. Optical Interconnects for Data Centers is a key reference text for electronics designers, optical engineers, communications engineers and R&D managers working in the

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communications and electronics industries as well as postgraduate researchers.

Summarizes the state-of-the-art in this emerging field Presents a comprehensive review of all the key aspects of deploying optical interconnects in data centers, from materials and components, to circuit boards and methods for integration Contains contributions that are drawn from leading international experts on the topic

The most expensive phase in the manufacture of micro-optical components and fiber optics is also one of the most performance-critical: optical alignment of the components. The increasing degree of miniaturization makes this an especially challenging task. Active alignment methods result in higher costs and awkward processes, and for some applications, they simply are not possible. Passive Micro-Optical Alignment Methods introduces the passive alignment methods that are currently available and illustrates them with many examples, references, and critiques. The first book dedicated to passive alignment, it begins with an overview of the current activities, requirements, and general results of passive optical alignments, followed by three sections of in-depth analysis. The first of these discusses mechanical passive alignment, highlighting silicon waferboard, solder, and "Jitney" technologies as well as application of mechanical alignment to 3D free-space interconnects. The next section describes the various visual alignment techniques applied to Planar Lightwave Circuits (PLCs) and low-cost

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plastic and surface mount packaging. The final section details various utilities that aid passive alignment and their resulting tradeoffs and demonstrates Monte Carlo analysis to evaluate the potential of a given method. Passive Micro-Optical Alignment Methods provides the tools necessary to meet the challenge of precision and low-cost alignment for applications that require micron or sub-micron tolerance.

Updated February 2014 This book is a guide to the design and installation of outside plant fiber optic cabling networks. It was written as a reference book for instructors and students in classes aimed at FOA CFOT and CFOS/O OSP specialist certification as well as a reference for anyone working in the field. This book offers expansive coverage on the components and processes of fiber optics as used in all outside plant applications and installation practices. Underground, buried, aerial and submarine/underwater installations are covered in detail as is specialized testing for extreme long distance networks. Fiber to the home is given special treatment in an appendix where these new generation networks are described in detail. Complete OSP curriculum materials are available from FOA. A guide to the physics of Dynamic Temperature Sensing (DTS) measurements including practical information about procedures and applications Distributed Fiber Sensing and Dynamic Ratings of Power Cable offers a comprehensive

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review of the physics of dynamic temperature sensing measurements (DTS), examines its functioning, and explores possible applications. The expert authors describe the available fiber optic cables, their construction, and methods of installation. The book also includes a discussion on the variety of testing methods with information on the advantages and disadvantages of each. The book reviews the application of the DTS systems in a utility environment, and highlights the possible placement of the fiber optic cable. The authors offer a detailed explanation of the cable ampacity (current rating) calculations and examines how the measured fiber temperature is used to obtain the dynamic cable rating information in real time. In addition, the book details the leading RTTR suppliers, including the verification methods they used before their products come to market. Information on future applications of the DTS technology in other aspects of power system operation is also discussed. This important book:

- Explains the required calibration procedures and utility performance tests needed after the installation of a DTS system
- Includes information on the various practical aspects of communicating measured and computed quantities to the transmission system operator
- Reviews possible applications of the technology to fault location, vibration monitoring, and general surveying of land and submarine cable routes

Written for cable engineers and

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manufacturers, Distributed Fiber Sensing and Dynamic Ratings of Power Cable is an authoritative guide to the physics of DTS measurements and contains information about costs, installation procedures, maintenance, and various applications.

This comprehensive handbook provides readers with a single-source reference to the theoretical fundamentals, physical mechanisms and principles of operation of all known microwave devices and various radars. The author discusses proven methods of computation and design development, process, schematic, schematic-technical and construction peculiarities of each breed of the microwave devices, as well as the most popular and original technical solutions for radars. Coverage also includes the history of creation of the most widely used radars, as well as guidelines for their potential upgrading. Offers readers a comprehensive, systematized view of all contemporary knowledge, acquired during the last 20 years, on radars and related disciplines; Provides a single-source reference on the physical mechanisms and principles of operation of the basic components of radio location devices, including theoretical aspects of designing the necessary, high-efficiency electronic devices and systems, as well as key, practical methods of computation and design; Presents complex topics using simple language, minimizing mathematics.

Cryogenics, a term commonly used to refer to very low temperatures, had its beginning in the latter half of the last century when man learned, for the first time, how to cool objects to a temperature lower than had ever existed naturally on the face of the earth. The air we breathe was first liquefied in 1883 by a Polish scientist named Olszewski. Ten years later he and a British scientist, Sir James Dewar, liquefied hydrogen. Helium, the last of the so-called permanent gases, was finally liquefied by the Dutch physicist Kamerlingh Onnes in 1908. Thus, by the beginning of the twentieth century the door had been opened to a strange new world of experimentation in which substances, except liquid helium, are solids and where the absolute temperature is only a few microdegrees away. However, the point on the temperature scale at which refrigeration in the ordinary sense of the term ends and cryogenics begins has never been well defined. Most workers in the field have chosen to restrict cryogenics to a temperature range below -150°C (123 K). This is a reasonable dividing line since the normal boiling points of the more permanent gases, such as helium, hydrogen, neon, nitrogen, oxygen, and air, lie below this temperature, while the more common refrigerants have boiling points that are above this temperature. Cryogenic engineering is concerned with the design and development of low-temperature systems and components.

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There is a substantial interest in the development of relative humidity sensors for applications in monitoring moisture levels at home, in clean rooms, cryogenic processes, medical and food science. This new book presents current research in the study of humidity sensors, including measuring methods and standards of water vapor sorption and humidity; environmental and bio-medical applications using quartz crystal microbalance humidity sensors and surface modified electrospun nanofibrous membranes for humidity detection.

This comprehensive volume provides a deeper understanding of the reliability of optical fibres and components. It is the first of its kind to look at the reliability of products and show their results and conclusions, bringing together 70 experts from a joint research initiative.

Optoelectronic devices and fibre optics are the basis of cutting-edge communication systems. This monograph deals with the various components of these systems, including lasers, amplifiers, modulators, converters, filters, sensors, and more.

The second edition of the highly acclaimed *Wind Power in Power Systems* has been thoroughly revised and expanded to reflect the latest challenges associated with increasing wind power penetration levels. Since its first release, practical experiences with high wind power penetration levels have significantly increased. This book presents an overview of the lessons learned in integrating wind power into power

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systems and provides an outlook of the relevant issues and solutions to allow even higher wind power penetration levels. This includes the development of standard wind turbine simulation models. This extensive update has 23 brand new chapters in cutting-edge areas including offshore wind farms and storage options, performance validation and certification for grid codes, and the provision of reactive power and voltage control from wind power plants. Key features: Offers an international perspective on integrating a high penetration of wind power into the power system, from basic network interconnection to industry deregulation; Outlines the methodology and results of European and North American large-scale grid integration studies; Extensive practical experience from wind power and power system experts and transmission systems operators in Germany, Denmark, Spain, UK, Ireland, USA, China and New Zealand; Presents various wind turbine designs from the electrical perspective and models for their simulation, and discusses industry standards and world-wide grid codes, along with power quality issues; Considers concepts to increase penetration of wind power in power systems, from wind turbine, power plant and power system redesign to smart grid and storage solutions. Carefully edited for a highly coherent structure, this work remains an essential reference for power system engineers, transmission and distribution network operator and planner, wind turbine designers, wind project developers and wind energy consultants dealing with the integration of wind power into the distribution or transmission network. Up-to-date and comprehensive, it is also useful

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for graduate students, researchers, regulation authorities, and policy makers who work in the area of wind power and need to understand the relevant power system integration issues.

The objective of this Rapid Start Guide [RSG] is to 'jump start you' on your path to becoming successful in fiber optic installation. This RSG will 'jump start' you by providing two types of information. The first type is the basic information the installer must have to get started in fiber optic installation. Without this information, the installer will have little chance of achieving the three goals of installation. The second type of information is the more subtle information that the installer must have to be consistently successful as a professional installer. In addition, this subtle information enables the installer to troubleshoot problems. As this is a Rapid Start Guide (RSG), it will provide the first type and a list of the information of the second type. See 'Other Terms' for a list of this subtle, but essential information. This Guide will reference the Building Wiring Standard, TIA/EIA-568-C, which is the latest version of the document used by most data network designers to design and implement their data networks.

This book constitutes the thoroughly refereed post-workshop proceedings of the 20th International Conference on Web Engineering, ICWE 2020, held in Helsinki, Finland, in June 2020.* The 4 revised full 4 revised short papers were selected from 10 submissions. The workshops complement the main conference and explore new trends on core topics of Web engineering and provide an open discussion space combining

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solid theory work with practical on-the-field experience. The workshop committee accepted three workshops for publication in this volume: 1st International Workshop on the Web of Things for Humans (WoT4H 2020), 2nd Semantics and the Web for Transport workshop (Sem4Tra 2020), and 6th International Workshop on Knowledge Discovery on the Web (KDWEB 2020). *The conference was held virtually due to the COVID-19 pandemic.

Dieses Nachschlagewerk wendet sich vor allem an Ingenieure und Physiker in der Telekommunikationsindustrie, bei Netzbetreibern und in der Datenkommunikation. Weiterhin kann es diesen Nutzern sowie Wissenschaftlern und Studenten einen Überblick über das Fachgebiet verschaffen und die Einarbeitung in speziellere Felder ermöglichen. Die grundlegenden Beziehungen und Technologien werden zusammengestellt und in ihren wesentlichen Zügen erläutert. Grafische Darstellungen und Abbildungen vermitteln die Zusammenhänge anschaulich und ingenieurgerecht. Zu dem Werk haben maßgebliche Forscher und Industrieingenieure aus dem deutschen Sprachraum beigetragen. Als Vorbild für die Konzeption diente das Standardwerk über Hochfrequenztechnik von MEINKE und GUNDLACH.

Designing a Structured Cabling System to ISO 11801 2nd Edition CRC Press
BUY THIS BOOK WITH A 55% DISCOUNT!!! Would you like to hold in your hand a great secret of success which will entail you about knowing people and their aspects in the best manner? All you need to use manipulation on your behalf is detecting the

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secrets underlying the human mind and learn the strategies to sneak into it so that you will be able to handle it, manage it, persuade it, control it. This Powerful 4 in 1 Guide will teach you: ? What is Manipulation and How It Works to give you the ability to influence minds and hearts which is one of the most powerful forces in human interactions ? The Main Strategies and Techniques used in Manipulation to acquire the best weapon to rule ? 7 foolproof techniques of persuasion to make others do what you want ? How to Understand Body Language and Facial Expressions so that you can go a long way toward helping you better communicate with others and interpreting what others might be trying to convey. ? How to use NLP Secrets and Success for Your Success to give you the best way of changing someone's thoughts and behaviors to help you achieve your most desired outcomes. ? Dark Psychology Tactics which are used by people around us every day to manipulate, coerce, and influence us to get what they want so that you will know how to turn everything in your favor ? ... & Much More! Most of you never think about this, but... Negative Thinking, Anxiety, Low Self-Esteem, and Weakness are not unbeatable: you just needed a 4 in 1 Guide like this to learn how to defeat them! Reading this proven book, you'll instantly become the Master of Your Mind and your Success. Order Your Copy Now and Become a Superpowered Hero!

In today's climate there is an increasing requirement for protective textiles, whether for personal protection, protection against the elements, chemical, nuclear or ballistic attack. This

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comprehensive book brings together the leading protective textiles experts from around the world. It covers a wide variety of themes from materials and design, through protection against specific hazards, to specific applications. This is the first book of its kind to give a complete coverage of textiles for protection. Covers a wide variety of themes from materials and design, through protection against specific hazards, to specific applications The first book of its kind to give a complete coverage of textiles for protection Written by leading protective textiles experts from around the world

This specification provides the general welding requirements for welding aircraft and space hardware. It includes but is not limited to the fusion welding of aluminum-based, nickel-based, iron-based, cobalt-based, magnesium-based, and titanium-based alloys using electric arc and high energy beam processes. There are requirements for welding design, personnel and procedure qualification, inspection, and acceptance criteria for aerospace, support, and non-flight hardware. Additional requirements cover repair welding of existing hardware. A commentary for the specification is included.

This new edition features numerous updates and additions. Especially 4 new chapters on Fiber Optics, Integrated Optics, Frequency Combs and Interferometry reflect the changes since the first edition. In addition, major complete updates for the chapters: Optical Materials and Their Properties, Optical Detectors, Nanooptics, and Optics far Beyond the Diffraction Limit. Features Contains over 1000 two-color illustrations. Includes over 120 comprehensive tables with properties of optical materials and light sources. Emphasizes physical concepts over extensive mathematical derivations. Chapters with summaries, detailed index Delivers a wealth of up-to-date references.

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Provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers Organizations in need of high-speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions. A data center is a facility used to house computer systems and associated components, such as telecommunications and storage systems. It generally includes multiple power sources, redundant data communications connections, environmental controls (e.g., air conditioning, fire suppression) and security devices. With contributions from an international list of experts, The Data Center Handbook instructs readers to: Prepare strategic plan that includes location plan, site selection, roadmap and capacity planning Design and build "green" data centers, with mission critical and energy-efficient infrastructure Apply best practices to reduce energy consumption and carbon emissions Apply IT technologies such as cloud and virtualization Manage data centers in order to sustain operations with minimum costs Prepare and practice disaster recovery and business continuity plan The book imparts essential knowledge needed to implement data center design and construction, apply IT technologies, and continually improve data center operations.

In two volumes, this book provides comprehensive coverage of the fundamental knowledge and technology of composite materials. This second volume reviews the research developments of a number of widely studied composite materials with different matrices. It also describes the related process technology that is necessary for a successful production. This work is ideal for graduate students, researchers, and professionals in the fields of materials science and engineering, as well as mechanical engineering.

Fiber optic communications and the data cabling revolution -- Optical fiber theory -- Optical

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fiber production techniques -- Optical fiber connection theory and basic techniques -- Practical aspects of connection technology -- Connectors and joints, alternatives and applications -- Fiber optic cables -- Optical fiber highways -- Optical fiber highway design -- Component choice -- Specification definition -- Acceptance test methods -- Installation practice -- Final acceptance testing -- Documentation -- Repair and maintenance -- Case study -- Future developments.

This book constitutes the refereed post-conference proceedings of the Third International Conference on Interoperability, InterIoT 2017, which was collocated with SaSelIoT 2017, and took place in Valencia, Spain, in November 2017. The 14 revised full papers were carefully reviewed and selected from 22 submissions and cover all aspects of the latest research findings in the area of Internet of Things (IoT).

This book describes for readers the entire, interconnected complex of theoretical and practical aspects of designing and organizing the production of various electronic devices, the general and main distinguishing feature of which is the high speed of processing and transmitting of digital signals. The authors discuss all the main stages of design - from the upper system level of the hierarchy (telecommunications system, 5G mobile communications) to the lower level of basic semiconductor elements, printed circuit boards. Since the developers of these devices in practice deal with distorted digital signals that are transmitted against a background of interference, the authors not only explain the physical

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nature of such effects, but also offer specific solutions as to how to avoid such parasitic effects, even at the design stage of high-speed devices.

Covering major standards and relevant design issues, this book explains how to specify, install, and test a modern reliable structured cabling system and analyzes the terminology and physics behind the standards. The author empowers the reader with the skills required to read and understand standards and address problems raised by the need to design, procure, install, and test a modern cabling system, using both copper and optical fiber cable technology. He thoroughly discusses the technology and the vast number of standards that accompany it. The material is based on the design recommendations of ISO/IEC 11801. The appendix lists relevant standards and provides contacts for standards organizations.

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Nowadays, the Internet plays a vital role in our lives. It is currently one of the most effective media that is shifting to reach into all areas in today's society.

While we move into the next decade, the future of many emerging technologies (IoT, cloud solutions, automation and AI, big data, 5G and mobile technologies, smart cities, etc.) is highly dependent on Internet connectivity and broadband communications. The demand for mobile and faster Internet connectivity is on the

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rise as the voice, video, and data continue to converge to speed up business operations and to improve every aspect of human life. As a result, the broadband communication networks that connect everything on the Internet are now considered a complete ecosystem routing all Internet traffic and delivering Internet data faster and more flexibly than ever before. This book gives an insight into the latest research and practical aspects of the broadband communication networks in support of many emerging paradigms/applications of global Internet from the traditional architecture to the incorporation of smart applications. This book includes a preface and introduction by the editors, followed by 20 chapters written by leading international researchers, arranged in three parts. This book is recommended for researchers and professionals in the field and may be used as a reference book on broadband communication networks as well as on practical uses of wired/wireless broadband communications. It is also a concise guide for students and readers interested in studying Internet connectivity, mobile/optical broadband networks and concepts/applications of telecommunications engineering.

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