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Effective Technical Communication Jan 25 2022 Effective Technical Communication is designed to serve as a practical guide and useful resource for scientists, engineers, and researchers. It addresses the need of practitioners engaged in the exchange of technical information to effectively share their ideas with, and make impact on, their peers. The book provides guidelines, technical conventions, and graphical and visual aids for communicating effectively. It discusses the use of scientific vocabulary and various forms of writing, starting from simple forms such as paragraph and precis writing to more advanced forms such as scientific and engineering reports and papers. Written in an easy-to-understand style, the text is supported with numerous illustrative examples. The correct use of language, the do's and don'ts of communication and the effective use of speech communication have also been discussed in detail.

Introduction to Numerical Methods Feb 23 2022 Written primarily for students in mechanical engineering programs and designed to give them the math preparation they need to succeed in higher level courses, Introduction to Numerical Methods introduces key theories, practical engineering-related examples, and relevant laboratory exercises to help students develop and test their knowledge. The book covers errors in computation, solving nonlinear equations with numerical techniques, matrices and vectors, and complex numbers. The material also includes an introduction to linear programming problems and instruction in probability and statistics. Many of the exercises in the book suggest the use of a Ti-83/Ti-84 calculator, and tips for using the calculator successfully are integrated into the text. The second edition features significant updates throughout the text, including the addition of learning objectives at the start of each chapter, clarified and reorganized chapter exercises, and additional introductory and contextual information for key concepts to better frame students' understanding. This edition also has an appendix that includes a brief introduction of popular statistical software, Minitab. Introduction to Numerical Methods is a well-organized, useful addition to undergraduate course work in engineering programs.

Encyclopedia of Artificial Intelligence Nov 10 2020 "This book is a comprehensive and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, among others"--Provided by publisher.

Wavelet Methods for Dynamical Problems Sep 01 2022 Employs a Step-by-Step Modular Approach to Structural Modeling Considering that wavelet transforms have also proved useful in the solution and analysis of engineering mechanics problems, up to now there has been no sufficiently comprehensive text on this use. Wavelet Methods for Dynamical Problems: With Application to Metallic, Composite and Nano-co

[Biopolymer-Based Food Packaging](#) Feb 11 2021 Biopolymer-Based Food Packaging Explore the latest developments and advancements in biopolymer-based food packaging In Biopolymer-Based Food Packaging: Innovations and Technology Applications, a team of accomplished researchers delivers a complete, systematic, and sequential account of the contemporary developments in the application of biopolymers for sustainable food packaging. This book introduces the fabrication, characterization as well as benefits arising from the enhanced functionalities of biopolymer-based food packaging materials. The authors introduce various polysaccharide, protein, and microbial polymer-based food packaging films and coatings, as well as biopolymer-based blends and nanocomposites. Importance of these materials as active and intelligent food packaging systems is also introduced. Finally, the book explores biopolymer-based edible food packaging, and its efficacy in extending the shelf-life of perishable food items using sustainable materials and processes suitable for the future of circular economies around the world. Readers will also find: A thorough introduction to the incorporation of nanomaterials as fillers to improve the physico-chemical, mechanical, thermal, barrier, optical, and antimicrobial properties of food packaging nanocomposites Comprehensive discussions of the use of plant-based bioactive compounds, including essential oils, in biopolymer-based food packaging Practical examinations of silver and zinc oxide nanoparticles in food packaging In-depth treatments of polylactic acid-

based composites for food packaging applications Biopolymer-Based Food Packaging: Innovations and Technology Applications is an invaluable resource for academic researchers and professionals in food packaging and related industries, as well as research scholars, graduate students, and entrepreneurs working and studying in the field of food preservation, environmental safety, and human health with a focus on the sustainable future.

[Multi-Objective Optimization](#) Nov 22 2021

[Genetic Engineering](#) Nov 03 2022

[Applications of Management Science](#) Jul 19 2021 Volume 19 of Applications of Management Science focuses on the application of management science methodologies, data envelopment analysis and multi-criteria decision making.

[Cognitive Analytics: Concepts, Methodologies, Tools, and Applications](#) Jun 25 2019 Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries, including business and healthcare. It is necessary to develop specific software programs that can analyze and interpret large amounts of data quickly in order to ensure adequate usage and predictive results. Cognitive Analytics: Concepts, Methodologies, Tools, and Applications provides emerging perspectives on the theoretical and practical aspects of data analysis tools and techniques. It also examines the incorporation of pattern management as well as decision-making and prediction processes through the use of data management and analysis. Highlighting a range of topics such as natural language processing, big data, and pattern recognition, this multi-volume book is ideally designed for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, software engineers, IT specialists, and academicians.

[Business India](#) Nov 30 2019

Handbook of Universities Apr 15 2021 The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed

Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

Fundamentals of Quality Control and Improvement 2e Sep 20 2021 This book covers the foundations of modern methods of quality control and improvement that are used in the manufacturing and service industries. Quality is key to surviving tough competition. Consequently, business needs technically competent people who are well-versed in statistical quality control and improvement. This book should serve the needs of students in business and management and students in engineering, technology, and other related disciplines. Professionals will find this book to be a valuable reference in the field. *Database Modeling for Industrial Data Management: Emerging Technologies and Applications* Sep 08 2020 "This book covers industrial databases and applications and offers generic database modeling techniques"--Provided by publisher.

Connectivity Frameworks for Smart Devices Oct 29 2019 This timely volume provides a review of the state-of-the-art frameworks and methodologies for connecting diverse objects and devices according to the vision for an Internet of Things (IoT). A specific focus is placed on the communication, security, and privacy aspects of device connectivity in distributed environments. Insights and case studies are provided by an authoritative selection of contributors of international repute into the latest research advances and practical approaches with respect to the connectivity of heterogeneous smart and sensory devices. Topics and features: Examines aspects of device connectivity within the IoT Presents a resource-based architecture for IoT, and proposes a resource management framework for corporate device clouds Reviews integration approaches for the IoT environment, and discusses performance optimization of intelligent home networks Introduces a novel solution for interoperable data management in multi-clouds, and suggests an approach that addresses the debate over network neutrality in the IoT Describes issues of data security, privacy, access control, and authentication in the distributed IoT environment Reviews the evolution of VANETs in relation to the

Internet of Vehicles, and provides a perspective on developing smart sustainable cities This invaluable text/reference will be of great benefit to a broad audience, from students and researchers interested in the IoT vision, to practicing communication engineers and network security specialists.

Cool Companies: Medical Devices & Technologies in Alberta, Canada 2010 Jun 17 2021

Sparks to Ignite the Rain May 29 2022 This book is made of poems about my experiences in two years of my life and a little more. It ranges from difficult times I went through, to my fantasies and complications in my interactions with other people. The first few poems of this book are some of my very first as well, and they start from elementary levels to what I hope is somewhat better. In all I have tried to be faithful to myself and my future audience.

Signals and Systems Apr 27 2022 In Signals and Systems, Sanjit Mitra addresses the question: What are the core concepts that undergraduate students need to learn in order to successfully continue their studies in the field? Straightforward, easy-to-understand, and engaging, Signals and Systems enables students to focus on essential material by avoiding artificial signals and systems that they will never encounter in their professional careers.

Handbook of Research on Emergent Applications of Optimization Algorithms Aug 08 2020 Modern optimization approaches have attracted an increasing number of scientists, decision makers, and researchers. As new issues in this field emerge, different optimization methodologies must be developed and implemented. The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering. Featuring coverage on a broad range of topics and perspectives such as hybrid systems, non-cooperative games, and cryptography, this publication is ideally designed for students, researchers, and engineers interested in emerging developments in optimization algorithms.

Graduate Employability Across Contexts May 05 2020 This book explores stakeholders perspectives, their practices, and engagement with enacting the employability agenda in the context of a rapidly changing world. It explains the need for developing graduate employability under socioeconomic, cultural, and political pressure exposed to the higher education sector. Largely framed within Bourdieus concepts of social field, habitus, and capital, it explores international stakeholders perspectives and experiences with graduate employability agenda in different contexts, which serves as a point of reference for the adoption of such initiatives. Based on empirical evidence, the authors develop a new graduate employability framework seeing it as a lifelong process, denote the relationships between types of employability capital, and shed light on the consequences of different strategies to translate employability capital to employment and career outcomes. Overall, this book generates both theoretical and practical insights which help to advance employability

programs, better prepare the future workforce, and anticipate turbulence in the labour markets.

Computational Intelligence in Pattern Recognition Apr 03 2020

This book presents practical development experiences in different areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

Practical Software Architecture Sep 28 2019 Getting Architecture Just Right: Detailed Practical Guidance for Architecting Any Real-World IT Project To build effective architectures, software architects must tread a fine line between precision and ambiguity (a.k.a big animal pictures). This is difficult but crucial: Failure to achieve this balance often leads directly to poor systems design and implementation. Now, pioneering IBM Distinguished Engineer and Chief Technology Officer Tilak Mitra offers the first complete guide to developing end-to-end solution architectures that are "just enough"--identifying and capturing the most important artifacts, without over-engineering or excessive documentation, and providing a practical approach to consistent and repeated success in defining software architectures. Practical Software Architecture provides detailed prescriptive and pragmatic guidance for architecting any real-world IT project, regardless of system, methodology, or environment. Mitra specifically identifies the artifacts that require emphasis and shows how to communicate evolving solutions with stakeholders, bridging the gap between architecture and implementation.

Intermetallic Matrix Composites Mar 15 2021 Intermetallic Matrix Composites: Properties and Applications is a comprehensive guide that studies the types and properties of intermetallic matrix composites, including their processing techniques, characterization and the various testing methods associated with these composites. In addition, it presents modeling techniques, their strengthening mechanisms and the important area of failure and repair. Advanced /complex IMCs are then explained, such as Self-healing IMCs and laminated intermetallic composites. The book concludes by delving into the industries that use these materials, including the automotive industry. Reviews the latest research in intermetallic matrix composites Contains a focus on properties and applications Includes contributions from leading experts in the field

Essential Engineering Statics Oct 02 2022 "Essential Engineering Statics" elevates the standard of tomorrow's engineers by focusing on core concepts, equations, principles, and problem-solving strategies. It is designed to meet the needs of today's students, who wish to extract a concise list of working principles and strategies from a straightforward text uncluttered by secondary information. Effective communication demands brevity and purpose. "Essential Engineering

Statics" emphasizes three essential abilities for mastering engineering statics - (1) applying Newton's 3rd Law, (2) drawing Free-Body Diagrams, and (3) determining the Force-Couple System at a reference location. By limiting the focus on three essential abilities, the book reduces the cognitive load and intends to achieve the following educational objectives: Readers will learn the principles with precision and be able to interpret and master the physics behind the principles. Readers will acquire the expertise for deciding when and how to apply the principles in problem solving. Readers will appreciate the relevance of the principles by solving real life problems. Readers will organize their knowledge for long-term retention. More than 150 solved examples to help the readers acquire the three abilities.

Handbook of Optimization in Telecommunications May 17 2021 This comprehensive handbook brings together experts who use optimization to solve problems that arise in telecommunications. It is the first book to cover in detail the field of optimization in telecommunications. Recent optimization developments that are frequently applied to telecommunications are covered. The spectrum of topics covered includes planning and design of telecommunication networks, routing, network protection, grooming, restoration, wireless communications, network location and assignment problems, Internet protocol, World Wide Web, and stochastic issues in telecommunications. The book's objective is to provide a reference tool for the increasing number of scientists and engineers in telecommunications who depend upon optimization.

Principles of Artificial Lift Jul 31 2022 The book 'Principles of Artificial Lift' explains the basics and fundamentals as well as the recent technology advancements in the field of artificial lift of producing oil and gas wells. This book is written primarily for Production Engineers and Petroleum Engineering college students of senior level as well as graduate level. Although the purpose of this book is to help as well as teaching artificial lift, it is supposed to be useful as a reference book to the engineers, performing artificial application in Petroleum Industries. We recognize that the topic of 'Principle of Artificial lift' is not complete without a basic understanding of the concept regarding well-inflow performance and multiphase flow in pipes. This inflow performance is being elaborated in easiest manner at very beginning of the book. Regarding presentation, this book focuses on presenting and illustrating engineering principles used for designing and analyzing well bore lifting systems, rather than in depth Reservoir Engineering Theories. Since the material of this book is virtually boundless in depth, knowing what to omit was greatest difficulty with its editing. Many of the industry known basic formula are used instead of deriving the same.

Directory - The Institution of Engineers (India). Oct 22 2021 World Guide to Universities - Internationales Universitäts-Handbuch Aug 27 2019

Emerging Trends in Terahertz Engineering and System Technologies Mar 27 2022 This book highlights emerging trends in terahertz engineering and system technologies, mainly, devices,

advanced materials, and various applications in THz technology. It includes advanced topics such as terahertz biomedical imaging, pattern recognition and tomographic reconstruction for THz biomedical imaging by use of machine learning and artificial intelligence, THz imaging radars for autonomous vehicle applications, THz imaging system for security and surveillance. It also discusses theoretical, experimental, established and validated empirical work on these topics and the intended audience is both academic and professional.

Application Guide For Power Engineers - Part 1 Aug 20 2021 Sound earthing & grounding of the electrical installation is the fundamental requirement for safe and reliable operation. There is a lot of misconception among practicing engineers (both design and field) on this topic. Study of this application guide will bring clarity to the reader on this topic. Earthing methods for different applications like EHV Switchyard, MV and LV systems and earthing application to special areas like Solar farms, GIS terminations, C&I (Control & Instrumentation) systems in power and industrial plants are covered. Remarks on mis-interpretation of IE rules are made. The reader will understand why different grounding methods are adopted at different voltage levels. Relationship between Grounding and Transformer Ampere Turns Balance theory is clearly brought out which is the cornerstone of grounding exercise. Features of ungrounded and grounded systems are covered in detail including demystification of zig zag connection. Ready to use spread sheets for sizing of NGT/NGR are given. Supported by copious illustrations from field experience, fundamental concepts of grounding are explained by solving problems of gradually increasing complexity. Various practices adopted for Neutral grounding of generator are described. Students will tremendously benefit by studying this guide as it combines theory with lot of practical examples. He/She will acquire the necessary skills upfront needed by industry. The design engineer or consultants will find the guide very useful to perform optimum design. Origin of many nuisance tripping or power quality issues is poor earthing/grounding. The practicing and field engineers will be able to address many of the problems encountered at site due to faulty earthing and grounding.

Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid Jan 31 2020 This book focuses on various challenges, solutions, and emerging technologies in the operation, control, design, optimization, and protection of microgrids in the presence of hybrid renewable energy sources and electric vehicles. This book provides an insight into the potential applications and recent development of different types of renewable energy systems including AC/DC microgrids, RES integration issues with the grid, electric vehicle technology, etc. The book serves as an interdisciplinary platform for the audience working in the focused area to access information related to energy management, modeling, and control. It covers fundamental knowledge, design, mathematical modeling, applications, and practical issues with sufficient design problems and case studies with detailed planning aspects. This book will serve as a guide for researchers, academicians, practicing engineers, professionals, and scientists, as

well as for graduate and postgraduate students working in the area of various applications of RES, Electric Vehicles, and AC/DC Microgrid. . Coastal Aquaculture Engineering Mar 03 2020 This book presents various features of coastal aquacultural operations.

Parametric Time-Frequency Domain Spatial Audio Jul 07 2020 A comprehensive guide that addresses the theory and practice of spatial audio This book provides readers with the principles and best practices in spatial audio signal processing. It describes how sound fields and their perceptual attributes are captured and analyzed within the time-frequency domain, how essential representation parameters are coded, and how such signals are efficiently reproduced for practical applications. The book is split into four parts starting with an overview of the fundamentals. It then goes on to explain the reproduction of spatial sound before offering an examination of signal-dependent spatial filtering. The book finishes with coverage of both current and future applications and the direction that spatial audio research is heading in. Parametric Time-frequency Domain Spatial Audio focuses on applications in entertainment audio, including music, home cinema, and gaming—covering the capturing and reproduction of spatial sound as well as its generation, transduction, representation, transmission, and perception. This book will teach readers the tools needed for such processing, and provides an overview to existing research. It also shows recent up-to-date projects and commercial applications built on top of the systems. Provides an in-depth presentation of the principles, past developments, state-of-the-art methods, and future research directions of spatial audio technologies Includes contributions from leading researchers in the field Offers MATLAB codes with selected chapters An advanced book aimed at readers who are capable of digesting mathematical expressions about digital signal processing and sound field analysis, Parametric Time-frequency Domain Spatial Audio is best suited for researchers in academia and in the audio industry.

Handbook of Research on Swarm Intelligence in Engineering Jul 27 2019 Swarm Intelligence has recently emerged as a next-generation methodology belonging to the class of evolutionary computing. As a result, scientists have been able to explain and understand real-life processes and practices that previously remained unexplored. The Handbook of Research on Swarm Intelligence in Engineering presents the latest research being conducted on diverse topics in intelligence technologies such as Swarm Intelligence, Machine Intelligence, Optical Engineering, and Signal Processing with the goal of advancing knowledge and applications in this rapidly evolving field. The enriched interdisciplinary contents of this book will be a subject of interest to the widest forum of faculties, existing research communities, and new research aspirants from a multitude of disciplines and trades.

Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications Dec 12 2020 In recent years, the science of managing and analyzing large datasets has emerged as a critical area of research. In the race to answer vital questions and make knowledgeable decisions, impressive amounts of data are now being

generated at a rapid pace, increasing the opportunities and challenges associated with the ability to effectively analyze this data.

Integrated Models in Production Planning, Inventory, Quality, and Maintenance

Oct 10 2020 Discusses developments in the integration of production, quality, and maintenance models, critical components of the manufacturing system. The effective integration of these four components gives a manufacturing operation the competitive edge in today's global market place.

CHARACTERIZATION OF MATERIALS Jun 29 2022 This textbook is primarily intended for undergraduate students of metallurgical and materials science engineering, and postgraduate students of material science. It is the outcome of author's thirty-five years' teaching experience at both undergraduate and postgraduate levels. In this book, whether it is crystal structure or the instruments, attempt has been made to build up from basics. Sufficient emphasis is given on the applications of each characterization technique. This book can be divided into two parts. The first part deals with understanding of structure and depiction of crystallographic planes and directions quantitatively, which is absolutely necessary for understanding of application of X-rays or electron microscopes. The second part deals with basic principles and applications of X-ray and electron diffraction, small angle and grazing incidence X-ray scattering and spectroscopic analysis methods. The chapter on electron microscopes includes almost whole range of instruments like TEM, SEM, FESEM, microprobe analyzer and AFM, used for characterizing micro and nanomaterials. The spectroscopic methods discussed are UV-VIS, IR & FTIR, Raman and Auger electron spectroscopes.

Issues in Electrical, Computer, and Optical Engineering: 2012 Edition Dec 24 2021 Issues in Electrical, Computer, and Optical Engineering: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Electrical Engineering. The editors have built Issues in Electrical, Computer, and Optical Engineering: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Electrical Engineering in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Electrical, Computer, and Optical Engineering: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at

ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Thermal Engineering Jan 13 2021 □ABOUT THE BOOK: Authors of Thermal Engineering are happy to present a long standing requirement of a book which will be useful to the students from first year to final year mechanical engineering course from various universities. This book covers quite wide spectrum of topics like fundamental concepts, first & second law of thermodynamics, IC engines, Systems of IC engines, Compressors & Gas turbines, Jet propulsion system, Boilers, properties of steam, Steam nozzles and Turbines, Condensers, Refrigeration and air-conditioning, Heat transfer, Fuels and combustion. New topics of today's interest like pollution and pollution control have been covered. Topics like metal cutting / joining process, machine devices & elements, introduction of mechatronics have also been included. This would give preliminary exposure to the students going to non-mechanical course to acquire some basic ideas about the manufacturing industry. These topics are intended to be studied by all students in the first year level in most of the universities. □OUTSTANDING FEATURES: - All topics included in the chapters have been thoroughly described. - Every topic has been written in most logical sequence maintaining the natural flow to keep the students interested. - The chapters are arranged such that the beginners will understand the fundamentals of 'THERMODYNAMICS' and gradually the topics of applications of thermodynamics have been developed in sequence. The students would be able to get the fundamental concept about all topics included in thermal engineering up to the final year in mechanical engineering, - A large number of solved problems on different topics are included. Numerical problems with answers, as well as theoretical questions have been included for the students to practice. - An alphabetical index is given at the end of the book to facilitate easy search of any topic as required. - The coverage of topics in the book is based on syllabi of universities in Andhra Pradesh, Karnataka, Kerala, Tamilnadu, Maharashtra, Punjab and West Bengal & other major universities. - Clear & simple figures have been included in each chapter for better understanding & also to enable students to draw / reproduce these in the examination easily. - In the entire book SI system of units is used. □RECOMMENDATIONS: A text for BE (Mech.), B.Tech (Mech.), UPSC (Engineering Services), AMIE, M.Tech. etc. □ABOUT THE AUTHOR: Prof. D.K. Chavan

Mechanical Engineering Department, Marathwada Mitra Mandal's College of Engineering (M.M.C.O.E.) Pune-52 Ex. Assistant Professor Mechanical Engineering Department, M.I.T., Pune-38 Prof. G.K. Pathak Sr. Faculty Member Mechanical Engineering Department, Maharashtra Institute of Technology M.I.T., Pune-38 □BOOK DETAILS: ISBN : 978-81-89401-20-7 Pages: 1521 + 32 Edition: 2nd, Year- 2013 Size: L-24.2 B-18.4 H-5.4 □PUBLISHED BY: STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail Office : 1705-A Nai Sarak Delhi-110006 011 23265506 Website: www.standardbookhouse.com A venture of Rajsons Group of Companies

SATELLITE COMMUNICATION Jan 01 2020 This compact text provides a thorough, readable treatment of the principles of satellite communication and its various technologies and components. It presents a clear analysis of subsystems of satellites, orbital mechanisms, launching mechanisms, earth and space systems employed in satellite links, and analog and digital communication through satellites. Besides, it explains the different methods used to access the various services provided by a satellite. The text avoids complicated mathematical derivations, but the results of these derivations and their references are used throughout the book when required for understanding the technical concepts. Primarily intended as a textbook for undergraduate students of electronics and communication engineering, telecommunication engineering, and information technology, this easy-to-understand book will also be useful as a reference for professional engineers.

Computational Tools and Techniques for Biomedical Signal Processing Jun 05 2020 Biomedical signal processing in the medical field has helped optimize patient care and diagnosis within medical facilities. As technology in this area continues to advance, it has become imperative to evaluate other ways these computation techniques could be implemented. Computational Tools and Techniques for Biomedical Signal Processing investigates high-performance computing techniques being utilized in hospital information systems. Featuring comprehensive coverage on various theoretical perspectives, best practices, and emergent research in the field, this book is ideally suited for computer scientists, information technologists, biomedical engineers, data-processing specialists, and medical physicists interested in signal processing within medical systems and facilities.