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1. Accounting Equation, 2. Rules of Debit and Credit, 3. Recording of Business Transactions : Books of Original Entry—Journal, 4. Ledger, 5. Special Purpose (Subsidiary) Books (I) : Cash Book, 6. Special Purpose Subsidiary Books (II), 7. Bank Reconciliation Statement, 8. Trial Balance & Errors, 9. Depreciation, 10. Accounting for Bills of Exchange, 11. Rectification of Errors, 12. Capital and Revenue Expenditures and Receipts, 13. Financial Statements/Final Account (Without Adjustment), 14. Final Accounts (With Adjustment), 15. Accounts from Incomplete Records Or Single Entry System. This book presents select proceedings of the 5th International Conference on Applications of Fluid Dynamics (ICAFD 2020) organized by the

School of Mechanical Engineering Science, VIT-AP University, India, in association with the University of Johannesburg, Auckland Park Kingsway Campus, South Africa. It identifies the existing challenges in the area of applied mathematics and mechanics (of solids and fluids) and emphasizes the importance of establishing new methods and algorithms to address these challenges. The topics covered include diverse applications of fluid dynamics in aerospace dynamics and propulsion, atmospheric sciences, compressible flow, environmental fluid dynamics, control structures, viscoelasticity and mechanics of composites. Given the contents, the book will be a useful resource for researchers as well as practitioners working in the area of mechanical engineering and applied mathematics. The book is a collection of high-quality peer-reviewed research papers presented in the International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES 2017). The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academia and industry have presented their original work and ideas, information, techniques and applications in the field of communication, computing and power technologies. This thesis discusses ultrasonic testing by means of numerical modeling and image reconstruction techniques using elastic and acoustic wave fields. Numerical modeling of elastic waves (part one of the thesis) is used to understand the elastic wave scattering due to material defects and the propagation of surface waves in inhomogeneous isotropic and anisotropic media, with special emphasis on transversely isotropic and orthotropic media. Different imaging techniques (part two of the thesis) are investigated to develop a software, implemented in Matlab, which can give imaging results immediately after the measurement almost in real time as it can read and process the data obtained directly from the measurement. Acoustic wave scattering using analytical techniques and imaging techniques based on Radon transform are investigated. The data obtained from the Radon transform are subjected for imaging utilizing the filtered back projection algorithm and the Fourier slice theorem. The fundamentals of elastic wave propagation in solids are extensively elaborated. The point source synthesis to compute the Green's functions for anisotropic media and the plane wave synthesis to compute slowness, phase and group velocity surfaces are studied. The elastic integral equations for the so called stretched coordinate system are derived. Based on these equations the numerical tool 'Three-dimensional Elastodynamic Finite Integration Technique' (3D-EFIT) has been enhanced to treat not only isotropic media but also anisotropic media. For fast computation, the 3D-EFIT code using the Message Passing Interface (MPI) is used by which processing on massive parallel computers is made possible. In 3D-EFIT the Convolutional Perfectly Matched Layers (CPML) can also be applied to absorb the elastic body waves as well as the surface and evanescent waves. 3D-EFIT for homogeneous anisotropic media is validated by comparing computed Green's functions with an analytical solution. After the validation, the applications of EFIT such as elastic wave modeling in inhomogeneous austenitic steel welds and inhomogeneous orthotropic wooden structures are presented. The results of the 2D-EFIT and 3D-EFIT modeling are compared against measurements performed at Federal Institute for Materials Research and Testing (BAM). After the modeling part of the thesis, inverse scattering techniques for fast imaging of inhomogeneities are studied. For three-dimensional imaging of defects in concrete, the Synthetic Aperture and Focusing Technique (SAFT) and Fourier Transformed Synthetic aperture Focusing Technique (FT-SAFT) are applied to data measured using a transducer array. The seismic Dip-Moveout (DMO) method has been utilized to convert measured bistatic data into monostatic data. A special treatment of SAFT as a technique for back propagation of the wave fields using time reversal, utilizing the knowledge of the geometry, is presented. Finally, time domain anisotropic SAFT (AnSAFT) is studied for image reconstruction of defects in inhomogeneous geometry with orthotropic crystal structure of the embedding medium. Master Modern Networking by Understanding and Solving Real Problems Computer Networking Problems and Solutions offers a new approach to understanding networking that not only illuminates current systems but prepares readers for whatever comes next. Its problem-solving approach reveals why modern computer networks and protocols are designed as they are, by explaining the problems any protocol or system must overcome, considering common solutions, and showing how those

solutions have been implemented in new and mature protocols. Part I considers data transport (the data plane). Part II covers protocols used to discover and use topology and reachability information (the control plane). Part III considers several common network designs and architectures, including data center fabrics, MPLS cores, and modern Software-Defined Wide Area Networks (SD-WAN). Principles that underlie technologies such as Software Defined Networks (SDNs) are considered throughout, as solutions to problems faced by all networking technologies. This guide is ideal for beginning network engineers, students of computer networking, and experienced engineers seeking a deeper understanding of the technologies they use every day. Whatever your background, this book will help you quickly recognize problems and solutions that constantly recur, and apply this knowledge to new technologies and environments. Coverage Includes · Data and networking transport · Lower- and higher-level transports and interlayer discovery · Packet switching · Quality of Service (QoS) · Virtualized networks and services · Network topology discovery · Unicast loop free routing · Reacting to topology changes · Distance vector control planes, link state, and path vector control · Control plane policies and centralization · Failure domains · Securing networks and transport · Network design patterns · Redundancy and resiliency · Troubleshooting · Network disaggregation · Automating network management · Cloud computing · Networking the Internet of Things (IoT) · Emerging trends and technologies

Leverage the Azure analytics platform's key analytics services to deliver unmatched intelligence for your data Key Features Learn to ingest, prepare, manage, and serve data for immediate business requirements Bring enterprise data warehousing and big data analytics together to gain insights from your data Develop end-to-end analytics solutions using Azure Synapse Book Description Azure Synapse Analytics, which Microsoft describes as the next evolution of Azure SQL Data Warehouse, is a limitless analytics service that brings enterprise data warehousing and big data analytics together. With this book, you'll learn how to discover insights from your data effectively using this platform. The book starts with an overview of Azure Synapse Analytics, its architecture, and how it can be used to improve business intelligence and machine learning capabilities. Next, you'll go on to choose and set up the correct environment for your business problem. You'll also learn a variety of ways to ingest data from various sources and orchestrate the data using transformation techniques offered by Azure Synapse. Later, you'll explore how to handle both relational and non-relational data using the SQL language. As you progress, you'll perform real-time streaming and execute data analysis operations on your data using various languages, before going on to apply ML techniques to derive accurate and granular insights from data. Finally, you'll discover how to protect sensitive data in real time by using security and privacy features. By the end of this Azure book, you'll be able to build end-to-end analytics solutions while focusing on data prep, data management, data warehousing, and AI tasks. What you will learn Explore the necessary considerations for data ingestion and orchestration while building analytical pipelines Understand pipelines and activities in Synapse pipelines and use them to construct end-to-end data-driven workflows Query data using various coding languages on Azure Synapse Focus on Synapse SQL and Synapse Spark Manage and monitor resource utilization and query activity in Azure Synapse Connect Power BI workspaces with Azure Synapse and create or modify reports directly from Synapse Studio Create and manage IP firewall rules in Azure Synapse Who this book is for This book is for data architects, data scientists, data engineers, and business analysts who are looking to get up and running with the Azure Synapse Analytics platform. Basic knowledge of data warehousing will be beneficial to help you understand the concepts covered in this book more effectively. This book presents high-quality, peer-reviewed papers from the FICR International Conference on Rising Threats in Expert Applications and Solutions 2020, held at IIS University Jaipur, Rajasthan, India, on January 17-19, 2020. Featuring innovative ideas from researchers, academics, industry professionals and students, the book covers a variety of topics, including expert applications and artificial intelligence/machine learning; advanced web technologies, like IoT, big data, and cloud computing in expert applications; information and cybersecurity threats and solutions; multimedia applications in forensics, security and intelligence; advances in app development; management practices for expert applications; and social and ethical aspects of expert applications in

applied sciences. This book presents the select peer-reviewed proceeding of the International Conference on Advanced Production and Industrial Engineering (ICAPIE) – 2021 held at Delhi Technological University. It covers recent trends in various fields of mechanical engineering. The broad range of topics and issues covered include mechanical system engineering, materials engineering, micro-machining, renewable energy, industrial engineering and additive manufacturing. This book will be useful for students, researchers and professionals working in the area of mechanical and allied engineering discipline. The depletion of fossil fuels is a major issue in energy generation; hence, biomass and renewable energy sources, especially bioenergy, are the solution. The dependence on bioenergy has many benefits to mitigate environmental pollution. It is imperative that the global society adopts these alternative, sustainable energy sources in order to mitigate the constant growth of climate change. Biomass and Bioenergy Solutions for Climate Change Mitigation and Sustainability highlights the challenges of energy conservation and current scenarios of existing fossil fuel uses along with pollution potential of burning fossil fuel. It further promotes the inventory, assessment, and use of biomass, pollution control, and techniques. This book provides the solution for climate change, mitigation, and sustainability. Covering topics such as biofuel policies, economic considerations, and microalgae biofuels, this premier reference source is an essential resource for environmental scientists, environmental engineers, government officials, business leaders, politicians, librarians, students and faculty of higher education, researchers, and academicians. Advances in Cyanobacterial Biology presents the novel, practical, and theoretical aspects of cyanobacteria, providing a better understanding of basic and advanced biotechnological application in the field of sustainable agriculture. Chapters have been designed to deal with the different aspects of cyanobacteria including their role in the evolution of life, cyanobacterial diversity and classification, isolation, and characterization of cyanobacteria through biochemical and molecular approaches, phylogeny and biogeography of cyanobacteria, symbiosis, Cyanobacterial photosynthesis, morphological and physiological adaptation to abiotic stresses, stress-tolerant cyanobacterium, biological nitrogen fixation. Other topics include circadian rhythms, genetics and molecular biology of abiotic stress responses, application of cyanobacteria and cyanobacterial mats in wastewater treatments, use as a source of novel stress-responsive genes for development of stress tolerance and as a source of biofuels, industrial application, as biofertilizer, cyanobacterial blooms, use in Nano-technology and nanomedicines as well as potential applications. This book will be important for academics and researchers working in cyanobacteria, cyanobacterial environmental biology, cyanobacterial agriculture and cyanobacterial molecular biologists. Summarizes the various aspects of cyanobacterial research, from primary nitrogen fixation, to advanced nano-technology applications Addresses both practical and theoretical aspects of the cyanobacterial application Includes coverage of biochemical and molecular approaches for the identification, use and management of cyanobacteria Fracture is a natural reaction of solids to relieve stress and shed excess energy. The fragility of solids is a constant threat to our survival as we drive over a bridge, go through a tunnel, or even inside a building. This book weaves together the essential concepts underlying fracture mechanics. This special volume of the conference will be of immense use to the researchers and academicians. In this conference, academicians, technocrats and researchers will get an opportunity to interact with eminent persons in the field of Applied Mathematics and Scientific Computing. The topics to be covered in this International Conference are comprehensive and will be adequate for developing and understanding about new developments and emerging trends in this area. High-Performance Computing (HPC) systems have gone through many changes during the past two decades in their architectural design to satisfy the increasingly large-scale scientific computing demand. Accurate, fast, and scalable performance models and simulation tools are essential for evaluating alternative architecture design decisions for the massive-scale computing systems. This conference recounts some of the influential work in modeling and simulation for HPC systems and applications, identifies some of the major challenges, and outlines future research directions which we believe are critical to the HPC modeling and simulation community. All machining process are dependent on a number of inherent process parameters. It is

of the utmost importance to find suitable combinations to all the process parameters so that the desired output response is optimized. While doing so may be nearly impossible or too expensive by carrying out experiments at all possible combinations, it may be done quickly and efficiently by using computational intelligence techniques. Due to the versatile nature of computational intelligence techniques, they can be used at different phases of the machining process design and optimization process. While powerful machine-learning methods like gene expression programming (GEP), artificial neural network (ANN), support vector regression (SVM), and more can be used at an early phase of the design and optimization process to act as predictive models for the actual experiments, other metaheuristics-based methods like cuckoo search, ant colony optimization, particle swarm optimization, and others can be used to optimize these predictive models to find the optimal process parameter combination. These machining and optimization processes are the future of manufacturing. Data-Driven Optimization of Manufacturing Processes contains the latest research on the application of state-of-the-art computational intelligence techniques from both predictive modeling and optimization viewpoint in both soft computing approaches and machining processes. The chapters provide solutions applicable to machining or manufacturing process problems and for optimizing the problems involved in other areas of mechanical, civil, and electrical engineering, making it a valuable reference tool. This book is addressed to engineers, scientists, practitioners, stakeholders, researchers, academicians, and students interested in the potential of recently developed powerful computational intelligence techniques towards improving the performance of machining processes. This book presents the select proceedings the 2nd International Conference on Mechanical and Energy Technologies (ICMET 2021). The broad range of topics and issues covered are bulk deformation processes and sheet metal forming, composites, ceramics, and polymers processing, corrosion, heat treatment, microstructure and materials properties, energy materials, failure and fracture mechanics, friction, wear, tribology, and surface engineering, functionally graded materials, cellular materials, low friction and corrosion resistive materials for energy applications, lubricants and lubrication, machinability and formability of materials, material science and engineering, and materials for energy storage. This book will be useful for students, researchers, and professionals working in the areas of mechanical and industrial engineering, energy technologies, and allied fields. The volume provides a wealth of up-to-date information on developments and applications of deep learning in healthcare and medicine, providing deep insight and understanding of novel applications that address the tough questions of disease diagnosis, prevention, and immunization. The volume looks at applications of deep learning for major medical challenges such as cancer detection and identification, birth asphyxia among neonates, kidney abnormalities, white blood cell segmentation, diabetic retinopathy detection, and Covid-19 diagnosis, prevention, and immunization. The volume discusses applications of deep learning in detection, diagnosis, intensive examination and evaluation, genomic sequencing, convolutional neural networks for image recognition and processing, and more for health issues such as kidney problems, brain tumors, lung damage, and breast cancer. The authors look at ML for brain tumor segmentation, in lung CT scans, in digital X-ray devices, and for logistic and transport systems for effective delivery of healthcare. CBSE Sample Paper Class 12 Accountancy, English Core, Business Studies & Mathematics 2022-2023 is one of the best CBSE Reference Books for the Class 12 Accountancy, English Core, Business Studies & Mathematics board exam. It includes Latest Solved Board Sample Papers with Marking scheme 2022- 2023 which were released on 16th September 2022 for enhanced learning. On top of that, 5 Sample Question Papers which have high chances of appearing in the CBSE board exam 2023 are included in this best CBSE Reference Book for Class 12 Physics, Chemistry, Biology board exam. These 5 sample question papers are available for free on Oswaal 360 website for students. The CBSE Sample Paper Class 12 Accountancy, English Core, Business Studies & Mathematics 2022-2023 contains 10 Sample Papers which further comprise 5 Solved & 5 Self-Assessment Papers. This is strictly designed as per the latest CBSE Sample Paper released on 16th September '2022 to keep students updated with CBSE guidelines. CBSE Sample Paper Class 12 Accountancy, English Core, Business Studies & Mathematics 2022-2023 comes with CBSE Board Sample Paper 2023

analysis to provide better exam clarity to the students. It includes On-Tips Notes & Revision Notes for Quick Revision and robust preparation. The best CBSE Reference Book for Class 12 Accountancy, English Core, Business Studies & Mathematics contains some of the best-advanced learning tools such as Mind Maps & Mnemonics with 1000+ concepts to make learning easier and more advanced for students. To top it all, 500+ Questions are also included for practice in the CBSE Accountancy, English Core, Business Studies & Mathematics 2022-2023. The right amount of practice with this book will lead to desired results for class 12 students. CBSE Sample Paper Class 12 Accountancy, English Core, Business Studies & Mathematics 2022-2023 when practised with focus and precision will produce desired results. When the students practice with this best CBSE Reference Book for Class 12 Accountancy, English Core, Business Studies & Mathematics board exam for a considerable amount of time then they are sure to score highest marks.

The proceedings of SocProS 2015 will serve as an academic bonanza for scientists and researchers working in the field of Soft Computing. This book contains theoretical as well as practical aspects using fuzzy logic, neural networks, evolutionary algorithms, swarm intelligence algorithms, etc., with many applications under the umbrella of 'Soft Computing'. The book will be beneficial for young as well as experienced researchers dealing across complex and intricate real world problems for which finding a solution by traditional methods is a difficult task. The different application areas covered in the proceedings are: Image Processing, Cryptanalysis, Industrial Optimization, Supply Chain Management, Newly Proposed Nature Inspired Algorithms, Signal Processing, Problems related to Medical and Health Care, Networking Optimization Problems, etc.

Hierarchical Composite Materials provides an in-depth analysis of a class of advanced composites that have properties that are anisotropic due to structural organization at different length scales. Chapters address how ordering occurs from the atomic-scale up to the microstructure and how control of these factors leads to the final materials' properties. Manufacturing procedures, properties, and applications of different functionally graded materials are discussed in detail. This book is ideal for materials scientists, mechanical engineers, chemists and physicists. This book offers a timely review of modern technologies for health, with a special emphasis on wireless and wearable technologies, GIS tools and machine learning methods for managing the impacts of pandemics. It describes new strategies for forecasting evolution of pandemics, optimizing contract tracing, and for detection and diagnosis of diseases, among others. Written by researchers and professionals with different backgrounds, this book offers a extensive information and a source of inspiration for physiologists, engineers, IT scientists and policy makers in the health and technology sector.

Containing research from the 25th edition of the Urban Transport conference, the papers included in this book address the need to solve important pollution problems associated with urban transport. There is also a growing need for integration with telecommunications systems and IT applications in order to improve safety, security and efficiency. There are various types of waves including water, sound, electromagnetic, seismic and shock etc. These waves need to be analyzed and understood for different practical applications. This book is an attempt to consider the waves in detail to understand the physical and mathematical phenomena. A major challenge is to model waves by experimental studies. The aim of this book is to address the efficient and recently developed theories along with the basic equations of wave dynamics. The latest development of analytical/semi analytical and numerical methods with respect to wave dynamics are also covered. Further few challenging experimental studies are considered for related problems. This book presents advances in wave dynamics in simple and easy to follow chapters for the benefit of the readers/researchers. The knowledge of mechanics of materials is the very foundation for advanced topics in mechanical, civil, aerospace, chemical, ceramic engineering and materials science. This comprehensive book presents materials with a three-dimensional approach rather than two-dimensional analysis adopted by existing books. It develops the required background thoroughly before basic elements such as stress and strain tensors are formulated. The presentation is richly filled with anecdotes, illustrations and solved examples. Special care has been taken to carry out algebra and the derivations in small digestible steps. This useful reference text largely meets the requirements of

computer-aided engineering (CAE) softwares which are widely used in industrial-sector and research & development laboratories to design structural members. The book *Kafka Streams - Real-time Stream Processing* helps you understand the stream processing in general and apply that skill to Kafka streams programming. This book is focusing mainly on the new generation of the Kafka Streams library available in the Apache Kafka 2.x. The primary focus of this book is on Kafka Streams. However, the book also touches on the other Apache Kafka capabilities and concepts that are necessary to grasp the Kafka Streams programming. Who should read this book? *Kafka Streams: Real-time Stream Processing* is written for software engineers willing to develop a stream processing application using Kafka Streams library. I am also writing this book for data architects and data engineers who are responsible for designing and building the organization's data-centric infrastructure. Another group of people is the managers and architects who do not directly work with Kafka implementation, but they work with the people who implement Kafka Streams at the ground level. What should you already know? This book assumes that the reader is familiar with the basics of Java programming language. The source code and examples in this book are using Java 8, and I will be using Java 8 lambda syntax, so experience with lambda will be helpful. Kafka Streams is a library that runs on Kafka. Having a good fundamental knowledge of Kafka is essential to get the most out of Kafka Streams. I will touch base on the mandatory Kafka concepts for those who are new to Kafka. The book also assumes that you have some familiarity and experience in running and working on the Linux operating system. This book constitutes revised and selected papers of the First International Conference on Computational Sciences - Modelling, Computing and Soft Computing, held in Kozhikode, Kerala, India, in September 2020. The 15 full papers and 6 short papers presented were thoroughly reviewed and selected from the 150 submissions. They are organized in the topical sections on computing; soft computing; general computing; modelling. Environmental change is affecting the world's agricultural productivity. This is coupled with an increase in population: according to the United Nations Department for Economic and Social Affairs, the global population is estimated to reach 9.7 billion by 2050. Therefore, the current situation requires that we develop climate-smart technologies to improve crop productivity to sustain the ever-rising global population. Current-day farmers are introducing a considerable amount of agrochemicals to enhance crop productivity. Indiscriminate agrochemical application has altered not only the soil's physico-chemical and biological properties but also affected human health through food chain contamination. Cyanobacteria, under these changing environmental conditions, may help to resolve the problem significantly without changing the natural soil properties. In spite of their well-known stress tolerance potential, most of the cyanobacterial stress management and signaling pathways are yet to be fully characterized. Therefore, there is an urgent need to explore cyanobacterial metabolism under stress as well as their regulatory pathways to exploit them for sustainable agriculture. In recent decades, the application of cyanobacteria has attracted scientists because of uniqueness, better adaptability, and synthetic products. Diverse cyanobacterial communities with the ability to fix atmospheric nitrogen, together with their photosynthetic properties, have demonstrated their application under field conditions. Several cyanobacterial species have thus been exploited to enhance soil fertility, mitigate biotic and abiotic stress, and contamination management. *Cyanobacterial Lifestyle and its Applications in Biotechnology* has been designed to discuss different aspects of cyanobacterial physiology with the aim of helping to provide a better understanding of advanced cyanobacterial molecular biology and their metabolism to uncover the potential of cyanobacteria in the tailoring of stress smart crops for sustainable agriculture. Chapters include valuable information about the role of cyanobacteria in the evolution of life, cyanobacterial photosynthesis, stress-tolerant cyanobacterium, biological nitrogen fixation, circadian rhythms, genetics and molecular biology of abiotic stress responses. Summarizes various aspects of cyanobacterial research. Includes comprehensive coverage of molecular approaches for the identification of cyanobacteria and their evolution. Identifies an expanding horizon of cyanobacterial lifestyle: stress management in cyanobacteria. Examines cyanobacteria synthetic biology, genetic engineering, photosynthesis and metabolic engineering. Chapter Navigation Tools • CBSE Syllabus : Strictly

as per the latest CBSE Syllabus dated: April 21, 2022 Cir. No. Acad-48/2022 • Latest updations: Some more benefits students get from the revised edition were as follows: • Topic wise/concept wise segregation of chapters • Important Keywords for quick recall of the concepts • Fundamental Facts to enhance knowledge • Practice questions within the chapters for better practice • Reflections to ask about your learnings • Unit wise Self Assessment Papers & Practice Papers for self evaluation • Revision Notes: Chapter wise & Topic wise • Exam Questions: Includes Previous Years Board Examination questions (2013-2021) • CBSE Marking Scheme Answers: Previous Years' Board Marking scheme answers (2013-2020) • New Typology of Questions: MCQs, assertion-reason, VSA ,SA & LA including case based questions • Toppers Answers: Latest Toppers' handwritten answers sheets Exam Oriented Prep Tools • Commonly Made Errors & Answering Tips to avoid errors and score improvement • Mind Maps for quick learning • Concept Videos for blended learning • Academically Important (AI) look out for highly expected questions for the upcoming exams • Mnemonics for better memorisation • Self Assessment Papers Unit wise test for self preparatio" The two-volume proceedings CCIS 1613 + 1614 constitute revised selected papers from the 6th International Conference on Advances in Computing and Data Sciences, ICACDS 2022, which was held in Kurnool, India in April 2022. The total of 69 full papers presented in the proceedings was carefully reviewed and selected from 411 submissions. The papers focus on advances of next generation computing technologies in the areas of advanced computing and data sciences. Mobile computing and multimedia technologies continue to expand and change the way we interact with each other on a business and social level. With the increased use of mobile devices and the exchange of information over wireless networks, information systems are able to process and transmit multimedia data in various areas. Contemporary Challenges and Solutions for Mobile and Multimedia Technologies provides comprehensive knowledge on the growth and changes in the field of multimedia and mobile technologies. This reference source highlights the advancements in mobile technology that are beneficial for developers, researchers, and designers. The book includes high-quality research papers presented at the International Conference on Innovative Computing and Communication (ICICC 2018), which was held at the Guru Nanak Institute of Management (GNIM), Delhi, India on 5-6 May 2018. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications. "This book should be used by human resource managers, corporate educators, instructional designers, consultants and researchers who want to discover how people use virtual realities for corporate education"-- Provided by publisher. This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors. This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy &

environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields. This monograph covers different aspects related to utilization of alternative fuels in internal combustion (IC) engines with a focus on biodiesel, dimethyl ether, alcohols, biogas, etc. The focal point of this book is to present engine combustion, performance and emission characteristics of IC engines fueled by these alternative fuels. A section of this book also covers the potential strategies of utilization of these alternative fuels in an energy efficient manner to reduce the harmful pollutants emitted from IC engines. It presents the comparative analysis of different alternative fuels in a variety of engines to show the appropriate alternative fuel for specific types of engines. This book will prove useful for both researchers as well as energy experts and policy makers. Description of the product: • **100% Updated** with Latest Syllabus & Fully Solved Board Paper

• **Crisp Revision with timed reading for every chapter** • **Extensive Practice with 3000+ Questions & Board Marking Scheme Answers** • **Concept Clarity with 1000+concepts, Smart Mind Maps & Mnemonics** • **Final Boost with 50+ concept videos** • **NEP Compliance with Competency Based Questions & Art Integration** River catchments and reservoirs play a central role in water security, food supply, flood risk management, hydropower generation, and ecosystem services; however, they are now under increasing pressure from population growth, economic activities, and changing climate means and extremes in many parts of the world. Adaptive management of river catchments and reservoirs requires an in-depth understanding of the impacts of future uncertainties and thus the development of robust, sustainable solutions to meet the needs of various stakeholders and the environment. To tackle the huge challenges in moving towards adaptive catchment management, this book presents the latest developments in cutting-edge knowledge, novel methodologies, innovative management strategies, and case studies, focusing on the following themes: reservoir dynamics and impact analysis of dam construction, optimal reservoir operation, climate change impacts on hydrological processes and water management, and integrated catchment management. This two-volume set offers a comprehensive overview of major challenges faced by cities worldwide in the 21st century, and how cities in different geographic, economic, and political conditions are finding solutions to them. • Offers students more than a simple A-Z encyclopedia of the world's major cities by delving deep into the issues that these urban centers face • Includes approximately 100 entries on a multitude of issues in a variety of cities around the world, from Abu Dhabi to Zurich • Includes photographs to help to illuminate and provide visual support to the text • Features entries written by more than 30 scholars with backgrounds in a variety of disciplines, contributing to a well-rounded, comprehensive text This new edition provides general practitioners with the latest information and guidance for the management of common conditions and diseases. Divided into 20 sections, the book consists of 800 clinical cases seen in daily practice. Each topic is presented in table format, summarising diagnosis, investigation, and treatment options, all on one page. Algorithms and charts further enhance the text. The second edition has been fully revised and has a completely new look. All chapters have been rewritten and many new topics have been added. Key points New edition providing GPs with latest information and guidance for management of common conditions and diseases Provides 800 cases seen in daily practice, each topic presented in table format on one page All chapters have been fully revised and new topics added Previous edition (9788184481013) published in 2008

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