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MAT 23 years Topic-wise Solved Papers (1997-2019) 8th Edition
Arctic Land Systems: Sciences and Societies

Comparative Study of Child Soldiering on Myanmar-China Border
Jan 15 2021 From comparative perspective, this book explores the dynamics of child soldiering on the Myanmar-China border (i.e., Kachin and Shan States of Myanmar). At the same time, this book examines the structural factors and specific relationships between child soldiers, which have impacts on child soldiering. This book reveals that Myanmar has limited power to reduce child soldiering on the Myanmar-China border, and there is no optimal solution for reducing child soldiering in the near future. Instead, the book introduces the "transnational public-private partnership" approach as a "second best" solution and proposes suitable countermeasures for all the stakeholders.

The Rise of China
Nov 24 2021 Terrorism: Commentary on Security Documents is a series that provide primary source documents and expert commentary on various topics relating to the worldwide effort combat terrorism, as well as efforts by the United States and other nations to protect their national interests. Volume 139, The Rise of China, examines the strategic implications of China's increasing economic and military power for the international community. Regional and global reactions to the growth of Chinese economic investment and property acquisitions are considered, along with responses to border disputes and other contentious regional issues. The documents in this volume include several reports and studies prepared by the U.S.-China Economic and Security Commission, examining such topics as: the evolving state of the overall military relationship between the U.S. and China; the development of China's Navy; China's establishment of an Air Defense Identification Zone (ADIZ); Chinese legal views on cyberspace and cybersecurity; general trends in U.S.-Chinese science and technology cooperation; and the impact of Chinese economic development on the United States.

A Systematic Review of Key Issues in Public Health 2019 This wide-ranging study reviews the state of public health worldwide and presents informed recommendations for real-world solutions. Identifying the most urgent challenges in the field, from better understanding the causes of acute diseases and conditions to reducing health inequities, it reports on cost-effective, science-based, ethically sound interventions. Chapters demonstrate bedrock skills essential to developing best practices, including flexible thinking for entrenched problems, conducting health impact assessments, and working with decision-makers. From these current findings come long-term practice and policy goals for preventing disease, promoting health, and improving quality of life, both locally and globally. A sampling of the topics covered includes: · Health trends of communicable diseases. · Epidemiology of cancer and principles of prevention. · Respiratory diseases and health disorders related to indoor and outdoor air pollution. · Public health gerontology and active aging. · Migrant and ethnic minority health. · Public health genomics. A Systematic Review of Key Issues in Public Health offers graduate students in the discipline a firm grasp on the field as it presently stands, and a clear set of directions for its potential future.

Health Equity, Diversity, and Inclusion: Context, Controversies, and Solutions 2021 The new second edition of this forward-thinking text goes beyond the discussion of health disparities to highlight the importance of health equity. As the title suggests, Health Equity, Diversity and Inclusion: Contexts, Controversies, and Solutions helps the reader understand key social justice issues relevant to health disparities and/or health equity, taking the reader from the classroom to the real world to implement solutions. The new Second Edition features: • Two new chapters: one on the impact of urban education on urban health and another covering the elderly and health equity • Updated and enhanced coverage on men's health, demographic data, the importance of cultural proficiency, maternal mortality and Black women, and much more. • Current trends and movements, including the role of social media in the provision of health care information for improved health literacy; mass incarceration and criminal justice reform; and much more.

Innovations for Sustainable Building Design and Refurbishment in Scotland 2020 This book presents innovations for sustainable building design and refurbishment developed and tested through feasibility studies undertaken by researchers at Scottish universities in collaboration with small to medium size enterprises in Scotland during the 'CIC Start Online' project that ran from September 2009 to February 2013. The project was led by Glasgow Caledonian University in collaboration with Edinburgh Napier University, Glasgow School of Art, Heriot-Watt University, the Robert Gordon University, University of Edinburgh and the University of Strathclyde Glasgow. The book includes chapters on Context and Policies, Planning, Building Design, Technologies, Construction, Refurbishment and Performance. The contents of each chapter are based on 63 completed studies that were initiated by businesses operating in the construction sector or providing services to the sector, indicating the scope of research required to assist the industry to develop more sustainable products and processes. The book informs the reader about the range of innovations that were tested and highlight potential future research areas. Readers can find in-depth information by accessing the project website www.cicstart.org, where reports on most studies and the video recordings of interactive online seminars that presented the outcomes of the studies are available. Along with the new knowledge on how innovations for sustainable building design and refurbishment can be applied in practice, the book demonstrates how joint projects of several universities can be successfully managed and how an immediate knowledge transfer can be organized using web tools to reach over 2,200 current members nationally and internationally (in UK and 53 other countries).

Principles of Performance and Reliability Modeling and Evaluation 2020 This book presents the latest key research into the performance and reliability aspects of dependable fault-tolerant systems and features commentary on the fields studied by Prof. Kishor S. Trivedi during his distinguished career. Analyzing system evaluation as a fundamental tenet in the design of modern systems, this book uses performance and dependability as common measures and covers novel ideas, methods, algorithms, techniques, and tools for the in-depth study of the performance and reliability aspects of dependable fault-tolerant systems. It identifies the current challenges that designers and practitioners must face in order

ensure the reliability, availability, and performance of systems, with special focus on their dynamic behaviors and dependencies, and provides system researchers, performance analysts, and practitioners with the tools to address these challenges in their work. With contributions from Prof. Trivedi's former PhD students and collaborators, many of whom are internationally recognized experts, to honor him on the occasion of his 70th birthday, this book serves as a valuable resource for all engineering disciplines, including electrical, computer, civil, mechanical, and industrial engineering as well as production and manufacturing.

The Equity Premium Puzzle, Intrinsic Growth & Monetary Policy An Unexpected Solution Theory & Strategy for the Coming Jobless Age 21 2021 This book shows we must adjust money supply to account for productivity if deflation is to be avoided. The central banker is not profit oriented and can create money at will, not subject to rational investor constraints. Businesses leverage low interest rates enforced by the central bank to grow and increase employment, compensating for the reduced labor necessary for the former level of goods and services. This leveraged difference in returns is the equity premium. Even a time productivity increase requires a corresponding permanent increase not in the money supply itself but in the "rate of increase" of the money supply. Given the steady growth in productivity of the last 100 years, the world economy is now grossly under-stimulated and in danger of precipitous deflation. Both academic models and arguments based on historical events are presented, along with analysis of the meaning of money, investor behavior, and practical techniques for obtaining the equity premium in one's portfolio.

Problems & Solutions In Corporate Accounting 05 2022 1. Final Accounts of Companies, 2. Managerial Remuneration, 3. Disposal of Profits, 4. Profit or Loss Prior to and After Incorporation, 5. Valuation of Goodwill, 6. Valuation of Shares, 7. Accounts of Public Utility Companies (Electricity Company), 8. Consolidated Balance Sheet of Holding Companies/ Parent Companies (With AS-21), 9. Liquidation of Company (Voluntary Liquidation Only), 10. Accounting for Amalgamation of Companies As Per A.S. 14 (ICAI), 11. Internal Reconstruction,

Development Challenges and Solutions After the Arab Spring 07 2020 Since the events of 2011, most Arab countries have slipped into a state of war, and living conditions for the majority of the working population have not changed for the better. This edited collection examines the socioeconomic conditions and contests the received policy framework to demonstrate that workable alternatives do exist.

Problems & Solutions In Corporate Accounting by Dr. S. K. Singh 04 2022 1. Final Accounts of Companies, 2. Managerial Remuneration, 3. Disposal of Profits, 4. Profit or Loss Prior to and After Incorporation, 5. Valuation of Goodwill, 6. Valuation of Shares, 7. Accounts of Public Utility Companies (Electricity Company), 8. Consolidated Balance Sheet of Holding Companies/ Parent Companies (With AS-21), 9. Liquidation of Company (Voluntary Liquidation Only), 10. Accounting for Amalgamation of Companies As Per A.S. 14 (ICAI), 11. Internal Reconstruction, 12. Accounts of Banking Companies, 13. Annual Accounts of Life Insurance Companies, 14. Accounts of General Insurance Companies, 15. Insurance Claim, 16. Issue of Rights, Bonus Shares and Buy Back of Shares.

Building the Impact Economy 05 2020 This book develops a comprehensive framework for creating sustainable new business approaches on a massive scale. It relates the power of entrepreneurship, investment and technology to four areas in which progress is urgently needed to get out of the world's current impasse. These are: game-changing innovations in companies; a way forward for the global fashion industry that reconciles competitiveness and worker dignity; turning around the energy crisis; and restoring capital markets to being the funders of human progress and prosperity that they once were. These are the pieces of the puzzle that is our future. Numerous case studies and actionable guidelines show how to concretely get the job done.

Continued Rise of the Cloud 07 2020 This book captures the state of the art in cloud technologies, infrastructures, and service delivery and deployment models. The work provides guidance and case studies on the development of cloud-based services and infrastructures from an international selection of expert researchers and practitioners. Features: presents a focus on security and access control mechanisms in cloud environments, analyses standards and brokerage services, and investigates the role of certification in cloud adoption; evaluates cloud ERP, suggests a framework for implementing "big data" science, and

proposes an approach for cloud interoperability; reviews existing elasticity management solutions, discusses the relationship between cloud management and governance, and describes the development of a cloud service capability assessment model; examines cloud applications in higher education, including the use of knowledge-as-a-service in the provision of education, and cloud-based e-learning for students with disabilities.

Participatory Planning for Climate Compatible Development in Maputo, Mozambique Sep 22 2021

Participatory Planning for Climate Compatible Development in Maputo, Mozambique is a practitioners' handbook that builds upon the experience of a pilot project that was awarded the United Nations 'Lighthouse Activity' Award. Building upon a long scholarly tradition of participatory planning, this dual-language (English/Portuguese) book addresses crucial questions about the relevance of citizen participation in planning for climate compatible development and argues that citizens have knowledge and access to resources that enable them to develop a sustainable vision for their community. In order to do so, the author proposes a Participatory Action Planning methodology to organise communities, and also advances mechanisms for institutional development through partnerships.

Micro and Nano Fabrication Feb 25 2022 For Microelectromechanical Systems (MEMS) and Nanoelectromechanical Systems (NEMS) production, each product requires a unique process technology. This book provides a comprehensive insight into the tools necessary for fabricating MEMS/NEMS and the process technologies applied. Besides, it describes enabling technologies which are necessary for a successful production, i.e., wafer planarization and bonding, as well as contamination control.

Corrosion Problems and Solutions in Oil Refining and Petrochemical Industry Mar 29 2022 This book addresses corrosion problems and their solutions at facilities in the oil refining and petrochemical industry, including cooling water and boiler feed water units. Further, it describes and analyzes corrosion control actions, corrosion monitoring, and corrosion management. Corrosion problems are a perennial issue in the oil refining and petrochemical industry, as they lead to a deterioration of the functional properties of metallic equipment and harm the environment – both of which need to be protected for the sake of current and future generations. Accordingly, this book examines and analyzes typical and atypical corrosion failure cases and their prevention at refineries and petrochemical facilities, including problems with: pipelines, tanks, furnaces, distillation columns, absorbers, heat exchangers, and pumps. In addition, it describes naphthenic acid corrosion, stress corrosion cracking, hydrogen damages, sulfidic corrosion, microbiologically induced corrosion, erosion-corrosion, and corrosion fatigue occurring at refinery units. At last, fouling, corrosion and cleaning are discussed in this book.

ICCSM2013-Proceedings of the International Conference on Cloud Security Management Aug 02 2022

Degraded Visual Environments Apr 29 2022 Proceedings of SPIE offer access to the latest innovations in research and technology and are among the most cited references in patent literature.

Handbook of Forensic Medicine Oct 31 2019 Forensic Medicine encompasses all areas in which medicine and law interact. This book covers diverse aspects of forensic medicine including forensic pathology, traumatology and violent death, sudden and unexpected death, clinical forensic medicine, toxicology, forensic medicine, identification, haemogenetics and medical law. A knowledge of all these subdisciplines is necessary in order to solve routine as well as more unusual cases. Taking a comprehensive approach this book moves beyond a focus on forensic pathology to include clinical forensic medicine and forensic toxicology. All aspects of forensic medicine are covered to meet the specialist needs of daily casework. Aspects of routine analysis and quality control are addressed in each chapter. The book provides coverage of the latest developments in forensic molecular biology, forensic toxicology, molecular pathology and immunohistochemistry. A must-have reference for every specialist in the field this book is set to become a bench-mark for the international forensic medical community.

Energy Policy Modeling in the 21st Century Sep 03 2022 The roles and applications of various modeling approaches, aimed at improving the usefulness of energy policy models in public decision making, are covered by this book. The development, validation, and applications of system dynamics and agent-based models in service of energy policy design and assessment in the 21st century is a key focus. A number of modeling approaches and models for energy policy, with a particular focus on low-carbon economic

development of regions and states are covered. Chapters on system dynamics methodology, model-based theory, fuzzy system dynamics framework, and optimization modeling approach are presented, along with several chapters on future research opportunities for the energy policy modeling community. The use of model-based analysis and scenarios in energy policy design and assessment has seen phenomenal growth during the past several decades. In recent years, renewed concerns about climate change and energy security have posed unique modeling challenges. By utilizing the validation techniques and procedures which are effectively demonstrated in these contributions, researchers and practitioners in energy systems domain can increase the appeal and acceptance of their policy models.

House of Commons - Welsh Affairs Committee: The Impact of Changes to Housing Benefit in Wales - Sep 10 2020 The costs of housing benefit currently makes up more than a tenth of the UK Government's expenditure on welfare, with costs forecast to reach £25 billion by 2014-15. The Government's policy on under-occupation came into force in April 2013 and it is estimated that 40,000 tenants in Wales will be affected; representing 46% of working age housing benefit claimants living in the social rented sector, the highest proportion of any region in Great Britain. There could therefore be a shortage of one and a half bedroom homes in Wales to re-house everyone who wants to downsize. If local authorities are struggling to find alternative smaller accommodation for Government should undertake a speedy review of this policy. It is also increasingly urgent for the Welsh Government to continue with its house-building programme, with a particular focus on the building of smaller sized properties: obviously this is a long-term solution that would require additional resources. If no social housing is available, tenants may need to move to the private rented sector and private rental costs would need to be monitored. The costs of moving disabled households who require adaptations are also a concern. There may be a case for exempting disabled households from the policy. The Government's proposal to pay housing benefit direct to social tenants under Universal Credit may result in some tenants being unable to manage their rent payments. The Committee recommends that the Government provide for housing benefit to be paid direct to the landlord in certain circumstances, for example after a specified period of non-payment.

Cable-Driven Parallel Robotics - Sep 30 2019 This book presents proceedings of the third international conference in this field, continuing the success of the previous events. The peer-reviewed and the selected papers are arranged to make the proposed book the most recent and complete overview on the State of the Art in Cable-Driven Parallel Robots! The conference took place 2017 in Quebec, QC, Canada,

Machine Learning and Knowledge Discovery in Databases - Aug 22 2021 The three volume set LNCS 9284, 9285, and 9286 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases, ECML PKDD 2015, held in Porto, Portugal, in September 2015. The 131 papers presented in these proceedings were carefully reviewed and selected from a total of 483 submissions. These include 89 research papers, 11 industrial papers, 14 nectar papers, 17 demo papers. They were organized in topical sections named: classification, regression and supervised learning; clustering and unsupervised learning; data preprocessing; data streams and online learning; deep learning; distance and metric learning; large scale learning and big data; matrix and tensor analysis; pattern and sequence mining; preference learning and label ranking; probabilistic, statistical, and graphical approaches; rich data; and social and graphs. Part III is structured in industrial track, nectar track, and demo track.

Creative Work Beyond the Creative Industries - Apr 17 2021 Creative workers are employed in sectors outside the creative industries often in greater numbers than within the creative field. This is the first book to explore the phenomena of the embedded creative and creative services through a range of sectors.

Energy Management of Distributed Generation Systems - May 31 2022 The book contains 10 chapters, and it is divided into four sections. The first section includes three chapters, providing an overview of Energy Management of Distributed Systems. It outlines typical concepts, such as Demand-Side Management, Demand Response, Distributed, and Hierarchical Control for Smart Micro-Grids. The second section contains three chapters and presents different control algorithms, software architectures, and simulation tools dedicated to Energy Management Systems. In the third section, the importance and the role of energy storage technology in a Distribution System, describing and comparing different types of energy storage

systems, is shown. The fourth section shows how to identify and address potential threats for a Home Energy Management System. Finally, the fifth section discusses about Economical Optimization of Operational Cost for Micro-Grids, pointing out the effect of renewable energy sources, active loads, and energy storage systems on economic operation.

Financial Reporting With Problems & Solutions, Accounting Standards & Guidance Notes (For CA-Final) Jul 01 2022 Unit 1: Introduction Unit 2: Valuation Unit 3: Corporate Resructuring Unit 4: Consolidated Financial Statements Unit 5: Employee Share-Based Payments Unit 6: Value Added Statement Unit 7: Human Resource Reporting Unit 8: Accounting And Repoting Of Financial Instruments Unit 9: Financial Reporting For Financial Institutions Appendix Ca Final Examination Paper May 2012

Corporate Reputation Decoded Jan 19 2021 Corporate Reputation Decoded is the first book of its kind that traces the journey of Indian companies in building corporate reputation (CR). The book addresses CR in the Indian context and is in response to the growing interest of companies in this area. The book e the process of building, maintaining and strategising for CR. It also discusses various aspects of CR—company's stakeholders, situations demanding CR interventions, and the impact of a company's culture, ethics and leadership on its CR. The book expounds on these using Indian cases (Tata, Infosys, HUL, Reliance, Aditya Birla Group, HDFC, among others), which enhance the understanding of CR in India as well as benchmark CR best practices in India. The book is of major significance to CR practitioners, scholars, teachers, students and C-Suite professionals who will also find the techniques proposed in the book interesting as they can assess, evaluate, adopt and adapt strategies followed by companies for reputation enhancement.

The 9th International Conference on Computing and Information Technology (IC2IT 2013) 2020
This volume contains the papers of the 9th International Conference on Computing and Information Technology (IC2IT 2013) held at King Mongkut's University of Technology North Bangkok (KMUTNB), Bangkok, Thailand, on May 9th-10th, 2013. Traditionally, the conference is organized in conjunction with the National Conference on Computing and Information Technology, one of the leading Thai national events in the area of Computer Science and Engineering. The conference as well as this volume is structured into 3 main tracks on Data Networks/Communication, Data Mining/Machine Learning, and Human Interfaces/Image processing.

Understanding and Using Q Replication for High Availability Solutions on the IBM z/OS May 19 2021 With ever-increasing workloads on production systems from transaction, batch, online query and reporting applications, the challenges of high availability and workload balancing are more important than ever. This IBM® Redbooks® publication provides descriptions and scenarios for high availability solutions using the Q Replication technology of the IBM InfoSphere® Data Replication product on the IBM z/OS platform. Also included are key considerations for designing, implementing, and managing solutions for typical business scenarios that rely on Q Replication for their high availability solution. This publication also includes sections on latency analysis, managing Q Replication in the IBM DB2® for z/OS environment and recovery procedures. These are topics of particular interest to clients who implement the Q Replication solution on the z/OS platform. Q Replication is a high-volume, low-latency replication solution that uses IBM WebSphere® MQ message queues to replicate transactions between source and target databases and subsystems. A major business benefit of the low latency and high throughput solution is timely availability of the data where the data is needed. High availability solutions are implemented to minimize the impact of planned and unplanned disruptions of service to the applications. Disruption of service can be caused by software maintenance and upgrades or by software and hardware outages. As applications' high availability requirements evolve towards continuous availability, that is availability of the data 24 hours a day and 7 days a week, so does the Q Replication solution, to meet these challenges. If you are interested in the Q Replication solution and how it can be used to implement some of the high availability requirements of your business scenarios, this book is for you.

Arid Land Systems: Sciences and Societies 27 2019 Understanding deserts and drylands is essential, as arid landscapes cover >40% of the Earth and are home to two billion people. Today's problematic environment-human interaction needs contemporary knowledge to address dryland complexity. Physical

dimensions in arid zones—land systems, climate and hazards, ecology—are linked with social processes directly impact drylands, such as land management, livelihoods, and development. The challenges require integrated research that identifies systemic drivers across global arid regions. Measurement and monitoring, field investigation, remote sensing, and data analysis are effective tools to investigate natural dynamics. Equally, inquiry into how policy and practice affect landscape sustainability is key to mitigate detrimental activity in deserts. Relations between socio-economic forces and degradation, agro-pastoral rangeland use, drought and disaster and resource extraction reflect land interactions. Contemporary themes of food security, conflict, and conservation are interlinked in arid environments. This book unifies desert science, arid environments, and dryland development. The chapters identify land dynamics, address system risks and delineate human functions through original research in arid zones. Mixed methodologies highlight the vital links between social and environmental science in global deserts. The book engages today's topical themes and presents novel analyses of arid land systems and societies.

Professional Access 2013 Programming, May 2020 Authoritative and comprehensive coverage for building Access 2013 Solutions Access, the most popular database system in the world, just opened a new frontier in the Cloud. Access 2013 provides significant new features for building robust line-of-business solutions for web, client and integrated environments. This book was written by a team of Microsoft MVPs, with consulting and editing by Access experts, MVPs and members of the Microsoft Access team. It gives you the information and examples to expand your areas of expertise and immediately start to develop and upgrade projects. Explores the new development environment for Access web apps Focuses on the latest tools and techniques for developing robust web applications Demonstrates how to monetize your applications on the Office Store and create e-commerce solutions Explains how to use SQL Server effectively to support both web and client solutions Provides techniques to add professional polish and deploy desktop applications Shows you how to automate other programs using Macros, VBA, API calls and more. Professional Access 2013 Programming is a complete guide on the latest tools and techniques for building Access 2013 applications for both the web and the desktop so that developers and businesses can move forward with confidence. Whether you want to add expand your expertise with Client/Server deployments or start developing web apps, you will want this book as a companion and reference.

China Satellite Navigation Conference (CSNC) 2014 Proceedings: Volume 2, May 2020 China Satellite Navigation Conference (CSNC) 2014 Proceedings presents selected research papers from CSNC2014, held on 21-23 May in Nanjing, China. The theme of CSNC2014 is 'BDS Application: Innovation, Integration and Sharing'. These papers discuss the technologies and applications of the Global Navigation Satellite System (GNSS) and the latest progress made in the China BeiDou System (BDS) especially. They are divided into 9 topics to match the corresponding sessions in CSNC2014, which broadly covered key topics in GNSS. Readers can learn about the BDS and keep abreast of the latest advances in GNSS techniques and applications. SUN Jiadong is the Chief Designer of the Compass/ BDS, and the Academician of Chinese Academy of Sciences (CAS); JIAO Wenhai is a researcher at China Satellite Navigation Office; WU Haitao is a professor at Navigation Headquarters, CAS; LU Mingquan is a professor at Department of Electronic Engineering of Tsinghua University.

MAT 23 years Topic-wise Solved Papers (1997-2019) 8th Edition 2019 MAT 20 years Topic-wise Solved Papers (1997-2016) consists of detailed solutions of the past 20 years of MAT question papers distributed in 55 topics. The book is divided into 5 sections MATHEMATICAL SKILLS, LANGUAGE COMPREHENSION, DATA ANALYSIS AND SUFFICIENCY, INTELLIGENCE AND CRITICAL REASONING and INDIAN AND GLOBAL ENVIRONMENT. These 5 sections are further divided into 55 chapters. The book is also helpful for other exams like CMAT, NMAT, ATMA, IRMA, SNAP, Bank PO, Bank Clerk, SSC, Railways, etc. To summarise, the book is aimed to serve as one stop solution for all major Competitive Exams. The book contains 5800+ Milestone problems for the major Competitive Exams. The book is fully solved and provides detailed explanation to each and every question. The layout of the book is so simple that a student can prepare/ revise a topic and then solve the previous year questions of that topic from this book.

[An Introduction To Viscosity Solutions for Fully Nonlinear PDE with Applications to Calculus of](#)

Variations in L? Oct 24 2021 The purpose of this book is to give a quick and elementary, yet rigorous, presentation of the rudiments of the so-called theory of Viscosity Solutions which applies to fully non-linear 1st and 2nd order Partial Differential Equations (PDE). For such equations, particularly for 2nd order ones, solutions generally are non-smooth and standard approaches in order to define a "weak solution" do not apply: classical, strong almost everywhere, weak, measure-valued and distributional solutions either do not exist or may not even be defined. The main reason for the latter failure is that, the standard idea of using "integration-by-parts" in order to pass derivatives to smooth test functions by duality, is not available for non-divergence structure PDE.

The Politics of Technology in Africa Mar 17 2021 Influencing Policy without Influencing Technology
Unprecedented Jan 03 2020 This book combines (1) the most extensive treatment of the causes and phenomena of climate change in combination with (2) an extensive treatment of social obstacles and challenges (fossil-fuel funded denialism, media failure, political failure, and moral, religious, and economic challenges), (3) the most extensive treatment of the needed transition from fossil-fuel energy to clean energy, and (4) the most extensive treatment of mobilization. It provides the most complete, most up-to-date treatment of the various kinds of clean energy, and how they could combine to provide 70% clean energy by 2035 and 100% before 2050 (both U.S. and worldwide).

Fundamentals of 5G Mobile Networks Dec 14 2020 Fundamentals of 5G Mobile Networks provides an overview of the key features of the 5th Generation (5G) mobile networks, discussing the motivation for and the main challenges in developing this new technology. This book provides an insight into the key areas of research that will define this new system technology paving the path towards future research and development. The book is multi-disciplinary in nature, and aims to cover a whole host of intertwined subjects that will predominantly influence the 5G landscape, including the future Internet, cloud computing, small cells and self-organizing networks (SONs), cooperative communications, dynamic spectrum management and cognitive radio, Broadcast-Broadband convergence, 5G security challenge, green RF. This book aims to be the first of its kind towards painting a holistic perspective on 5G Mobile Networks, allowing 5G stakeholders to capture key technology trends on different layering domains and to identify potential inter-disciplinary design aspects that need to be solved in order to deliver a 5G Mobile system that operates seamlessly.

Modern Standardization Aug 29 2019 This book includes a collection of standards-specific case studies. The case studies offer an opportunity to combine the teaching preferences of educators with the goals of the SEC (Standards Education Committee); providing students with "real-world" insight into the technical, political, and economic arenas of engineering. Encourages students to think critically about standards development and technology solutions Reinforces the usage of standards as an impetus for innovation help understand the dynamics and impacts of standards A curriculum guide is available to instructors who have adopted the book for a course. To obtain the guide, please send a request to: ieeeproposals@wiley.com.

MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE, Second Edition Feb 13 2021 This book, in its Second Edition, provides the basic concepts and applications of discrete mathematics and graph theory. The book is aimed at undergraduate students of computer science and engineering, and information technology. It is also suitable for undergraduate and postgraduate students of computer science, mathematics and computer applications. The book exposes the students to fundamental knowledge in: - Mathematical logic, tautology and normal forms - Elementary set theory, functions and their relations - Algebraic structure, binary operation, group theory and homomorphism - Theory of permutations and combinations, binomial and multinomial theorems - Recurrence relations and methods of solving them - Graph theory, spanning tree, Eulerian and Hamiltonian circuits and isomorphism Key Features Includes a large number of worked-out problems for sound understanding of the concepts. Offers chapter-end exercises to test students' comprehension of theory. Gives a quiz section at the end of each chapter to help students prepare for the competitive examinations. Incorporates short questions asked in universities and competitive examinations.

Aug 10 2020

Sustainable Retrofitting of Commercial Buildings 27 2022 Whilst sustainability is already an important driver in the new building sector, this book explores how those involved in refurbishment of commercial building are moving this agenda forward. It includes chapters by developers, surveyors, cost consultants, architects, building physicists and other players, on the role they each can play in enabling refurbishment to be commercially, environmentally and socially sustainable. Case studies from northern climates show real examples of different building types, ages and uses and will demonstrate what actions have been taken to create more sustainable buildings. The chapters raise and discuss all the relevant issues that need to be considered in retrofitting decision making. Changing standards, planning, process management, financing, technical issues, site organisation, commissioning and subsequent building management are all considered. The book demonstrates that buildings can be made comfortable to occupy, easy to manage and low in energy demand and environmental impact.

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