

# Jan 2015 C12 Paper

Decoding **Jan 2015 C12 Paper**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Jan 2015 C12 Paper**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

**Sedimentary Petrology** Ali Al-Juboury 2022-01-12 Sedimentary Petrology - Implications in Petroleum Industry provides some new information on the importance of sedimentary petrology in various disciplines that are of great significance for the evaluation and locating of oil and gas. This book focuses on the provenance history of clastic rocks, reservoir characterization and hydrocarbon exploration in carbonate reservoirs, and enhanced oil recovery based on data from petrological investigations from various regions in Asia and Europe.

*Virus Discovery by Metagenomics: The (Im)possibilities* Bas E. Dutilh 2017-10-25 Since the late 1800s, the discovery of new viruses was a gradual process. Viruses were described one by one using a suite of techniques such as (electron) microscopy and viral culture. Investigators were usually interested in a disease state within an organism, and expeditions in viral ecology were rare. The advent of metagenomics using high-throughput sequencing has revolutionized not only the rate of virus discovery, but also the nature of the discoveries. For example, the viral ecology and etiology of many human diseases are being characterized, non-pathogenic viral commensals are ubiquitous, and the description of environmental viromes is making progress. This *Frontiers in Virology Research* Topic showcases how metagenomic and bioinformatic approaches have been combined to discover, classify and

characterize novel viruses.

*A Companion to Ayn Rand* Allan Gotthelf 2015-12-18 The first volume to offer a comprehensive scholarly treatment of Rand's entire corpus (including her novels, her philosophical essays, and her analysis of the events of her times), this Companion provides vital orientation and context for scholars and educated readers grappling with a controversial and understudied thinker whose enduring influence on American (and world) culture is increasingly recognized. The first publication to provide an in-depth scholarly treatment ranging over the whole of Rand's corpus Provides informed contextual analysis for scholars in a variety of disciplines Presents original research on unpublished material and drafts from the Rand archives in California Features insightful and fair-minded interpretations of Rand's controversial positions

*IAS Mains Paper 3 Technology Economic Development Bio Diversity Environment, Security & Disaster Management 2020* Mohit Sharma 2019-11-12 UPSC is considered to be the most prestigious and toughest examination in the country. In order to crack these exams one needs to do heavy preparations, thorough practice and clear concepts about each and every subject. "IAS Mains General Studies Paper - 3" the most updated study material incorporated with detailed information and supported by up-to-date facts and figures. The complete coverage on each topic of the syllabus has been divided into 4 Important Units in

this book. It gives the complete depiction of Indian Economy and Agriculture, Science and Technology, Biodiversity, Environment and Disaster Management, and Internal Security. This book facilitates by giving the deep coverage on all topics of the syllabus at one place with the conceptual clarity to fulfil the need and demands of the aspirants, special exam oriented structure has been given according to the UPSC syllabus, discussion of the theoretical concepts with the contemporary examples are given, Solved Papers from Solved Papers 2019-17 and 16 and 3 Practice Sets that helps in raising up level of preparation. This book acts as a great help in achieving the success for the upcoming exam. TABLE OF CONTENTS Solved Paper 2019, Solved Paper 2018, and Solved Paper 2017, Unit 1: Indian Economy and Agriculture, Unit -2: Science and Technology, Unit -3: Biodiversity, Environment and Disaster Management, Unit -4: Internal Security, Solved Paper 2016, Practice Papers (1-3).

**Lead the Work** John W. Boudreau 2015-07-10 A detailed look at the evolution of employment and its far-reaching implications Lead the Work takes an incisive look at the evolving nature of work, and how it's affecting management and productivity at the organizational level. Where getting things done once meant assigning it to an employee, today's leaders are increasingly at risk if they fail to recognize that talent can float into and out of an organization. Long-term employment has given way to medium- or short-term employment, marking the first step in severing the bond that once fixed an individual inside an organization. Getting work done by means other than an employee was once considered a fringe event, but now leading organizations are accepting and taking advantage of the notion that talent has shown itself to be mutable. This book explores this phenomenon in detail and provides a new roadmap to help managers navigate this new environment. The workplace has undergone many changes over the years, but the emerging trend away from traditional employment represents a massive shift that has profound implications for the business model of every organization, large or small. This book describes how management is changing, and how managers must adapt to survive. Examine the

dispersed organization and the changing nature of employment Learn how work is becoming impermanent and individualized Find new strategies for managing and leading Get up to speed on the decision science for the new era Workplaces evolve like biological beings; only the strong survive, and it's the competitive edge that ensures continued success. Lead the Work describes the new landscape, and shows you how to adapt and thrive.

**The Firecracker Boys** Dan O'Neill 2015-06-23 In 1958, Edward Teller, father of the H-bomb, unveiled his plan to detonate six nuclear bombs off the Alaskan coast to create a new harbor. However, the plan was blocked by a handful of Eskimos and biologists who succeeded in preventing massive nuclear devastation potentially far greater than that of the Chernobyl blast. The Firecracker Boys is a story of the U.S. government's arrogance and deception, and the brave people who fought against it—launching America's environmental movement. As one of Alaska's most prominent authors, Dan O'Neill brings to these pages his love of Alaska's landscape, his skill as a nature and science writer, and his determination to expose one of the most shocking chapters of the Nuclear Age.

**Science & Technology for General Studies CSAT - Paper 1 IAS Prelims 2nd Edition** Disha Experts Science & Tech General Studies CSAT - Paper 1 IAS Prelims for Civil Services Preliminary Exam covers various Chapters and their important topics. The book is divided into 17 chapters followed by 2 levels of exercises - Simple MCQs & statement based MCQs. The book captures most of the important questions with explanations of the past 12 years of the IAS Prelim exam distributed in the various chapters.

*Financial Cryptography and Data Security* Michael Brenner 2015-09-04 This book constitutes the refereed proceedings of three workshops held at the 19th International Conference on Financial Cryptography and Data Security, FC 2015, in San Juan, Puerto Rico, in January 2015. The 22 full papers presented were carefully reviewed and selected from 39 submissions. They feature the outcome of the Second Workshop on Bitcoin Research, BITCOIN 2015, the Third Workshop on Encrypted Computing and Applied Homomorphic Cryptography, WAHC 2015, and

the First Workshop on Wearable Security and Privacy, Wearable 2015.

**The Regulation of the Global Water Services Market** Julien Chaisse 2017-01-26 Drinking water and wastewater services must be provided to many sectors of a nation's economy, including its industrial, commercial, and residential sectors. This forms the scope of the water industry's activities and it explains why the privatisation of water sanitation and water services has become a huge market and a much-debated issue in a number of jurisdictions. Historically the water industry has been run as a public service which is owned by the local or national government, recent trends suggest that the role of the private sector is increasing. The growing economic interests concerning water and wastewater services are generating a tension with the recent recognition of the human right to water and sanitation. This tension between human right and economic rules is the focus of this book, which reviews all the international rules that form the regulation of global water services.

**The Women of NOW** Katherine Turk 2023-08-15 "A clear blueprint for change . . . A must-read." —Clara Bingham, *The Guardian* The history of NOW—its organization, trials, and revolutionary mission—told through the work of three members. In the summer of 1966, crammed into a D.C. hotel suite, twenty-eight women devised a revolutionary plan. Betty Friedan, the well-known author of *The Feminine Mystique*, and Pauli Murray, a lawyer at the front lines of the civil rights movement, had called this renegade meeting from attendees at the annual conference of state women's commissions. Fed up with waiting for government action and trying to work with a broken system, they laid out a vision for an organization to unite all women and fight for their rights. Alternately skeptical and energized, they debated the idea late into the night. In less than twenty-four hours, the National Organization for Women was born. In *The Women of NOW*, the historian Katherine Turk chronicles the growth and enduring influence of this foundational group through three lesser-known members who became leaders: Aileen Hernandez, a federal official of Jamaican American heritage; Mary Jean Collins, a working-class union organizer and Chicago Catholic; and Patricia Hill Burnett, a Michigan Republican, artist, and former beauty queen. From its bold

inception through the tumultuous training ground of the 1970s, NOW's feminism flooded the nation, permanently shifted American culture and politics, and clashed with conservative forces, presaging our fractured national landscape. These women built an organization that was radical in its time but flexible and expansive enough to become a mainstream fixture. This is the story of how they built it—and built it to last. Includes 16 pages of black-and-white images

**Insect Biodiversity** Robert G. Foottit 2017-10-02 Volume One of the thoroughly revised and updated guide to the study of biodiversity in insects The second edition of *Insect Biodiversity: Science and Society* brings together in one comprehensive text contributions from leading scientific experts to assess the influence insects have on humankind and the earth's fragile ecosystems. Revised and updated, this new edition includes information on the number of substantial changes to entomology and the study of biodiversity. It includes current research on insect groups, classification, regional diversity, and a wide range of concepts and developing methodologies. The authors examine why insect biodiversity matters and how the rapid evolution of insects is affecting us all. This book explores the wide variety of insect species and their evolutionary relationships. Case studies offer assessments on how insect biodiversity can help meet the needs of a rapidly expanding human population, and also examine the consequences that an increased loss of insect species will have on the world. This important text: Explores the rapidly increasing influence on systematics of genomics and next-generation sequencing Includes developments in the use of DNA barcoding in insect systematics and in the broader study of insect biodiversity, including the detection of cryptic species Discusses the advances in information science that influence the increased capability to gather, manipulate, and analyze biodiversity information Comprises scholarly contributions from leading scientists in the field *Insect Biodiversity: Science and Society* highlights the rapid growth of insect biodiversity research and includes an expanded treatment of the topic that addresses the major insect groups, the zoogeographic regions of biodiversity, and the scope of systematics approaches for handling

biodiversity data.

### **Regulatory potential of post-translational modifications in**

**bacteria** Ivan Mijakovic 2015-07-22 Post-translational modifications (PTMs) are widely employed by all living organisms to control the enzymatic activity, localization or stability of proteins on a much shorter time scale than the transcriptional control. In eukarya, global analyses consistently reveal that proteins are very extensively phosphorylated, acetylated and ubiquitylated. Glycosylation and methylation are also very common, and myriad other PTMs, most with a proven regulatory potential, are being discovered continuously. The emergent picture is that PTM sites on a single protein are not independent; modification of one residue often affects (positively or negatively) modification of other sites on the same protein. The best example of this complex behavior is the histone “bar-code” with very extensive cross-talk between phosphorylation, acetylation and methylation sites. Traditionally it was believed that large networks of PTMs exist only in complex eukaryal cells, which exploit them for coordination and fine-tuning of various cellular functions. PTMs have also been detected in bacteria, but the early examples focused on a few important regulatory events, based mainly on protein phosphorylation. The global importance (and abundance) of PTMs in bacterial physiology was systematically underestimated. In recent years, global studies have reported large datasets of phosphorylated, acetylated and glycosylated proteins in bacteria. Other modifications of bacterial proteins have been recently described: pupylation, methylation, sirtuin acetylation, lipidation, carboxylation and bacillithiolation. As the landscape of PTMs in bacterial cells is rapidly expanding, primarily due to advances of detection methods in mass spectrometry, our research field is adapting to comprehend the potential impact of these modifications on the cellular physiology. The field of protein phosphorylation, especially of the Ser/Thr/Tyr type, has been profoundly transformed. We have become aware that bacterial kinases phosphorylate many protein substrates and thus constitute regulatory nodes with potential for signal integration. They also engage in cross-talk and eukaryal-like mutual activation

cascades. The regulatory potential of protein acetylation and glycosylation in bacteria is also rapidly emerging, and the cross-talk between acetylation and phosphorylation has been documented. This topic deals with the complexity of the PTM landscape in bacteria, and focus in particular on the physiological roles that PTMs play and methods to study them. The topic is associated to the 1st International Conference on Post-Translational Modifications in Bacteria (September 9-10, 2014, Göttingen, Germany).

**Bibliography of Agriculture** 1956

**Emerging Infectious Diseases** 2015

**Knowledge Discovery, Knowledge Engineering and Knowledge**

**Management** Ana Fred 2017-01-21 This book constitutes the thoroughly refereed proceedings of the 7th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2015, held in Lisbon, Portugal, in November 2015. The 25 full papers presented together with 2 invited papers were carefully reviewed and selected from 280 submissions. The papers are organized in topical sections on knowledge discovery and information retrieval; knowledge engineering and ontology development; and knowledge management and information sharing.

**The North Carolina Historical Review** 2018

*Photonics, Volume 4* David L. Andrews 2015-02-27 Discusses the basic physical principles underlying Biomedical Photonics, spectroscopy and microscopy This volume discusses biomedical photonics, spectroscopy and microscopy, the basic physical principles underlying the technology and its applications. The topics discussed in this volume are: Biophotonics; Fluorescence and Phosphorescence; Medical Photonics; Microscopy; Nonlinear Optics; Ophthalmic Technology; Optical Tomography; Optofluidics; Photodynamic Therapy; Image Processing; Imaging Systems; Sensors; Single Molecule Detection; Futurology in Photonics. Comprehensive and accessible coverage of the whole of modern photonics Emphasizes processes and applications that specifically exploit photon attributes of light Deals with the rapidly advancing area of modern optics Chapters are written by top scientists in

their field Written for the graduate level student in physical sciences; Industrial and academic researchers in photonics, graduate students in the area; College lecturers, educators, policymakers, consultants, Scientific and technical libraries, government laboratories, NIH.

**Business Ethics: Ethical Decision Making & Cases** O. C. Ferrell  
2016-01-01 Packed with cases, exercises, simulations, and practice tests, the market-leading BUSINESS ETHICS: ETHICAL DECISION MAKING AND CASES, 11th Edition, thoroughly covers the complex environment in which managers confront ethical decision-making. Using a proven managerial framework, this accessible, applied text addresses the overall concepts, processes, and best practices associated with successful business ethics programs -- helping you see how ethics can be integrated into key strategic business decisions. Thoroughly revised, this edition incorporates coverage of new legislation affecting business ethics, the most up-to-date examples, and the best practices of high-profile organizations. It also includes 20 new or updated original case studies. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Developments in Strategic Ceramic Materials* Waltraud M. Kriven  
2016-01-05 The Ceramic Engineering and Science Proceeding has been published by The American Ceramic Society since 1980. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.

**Legal Data for Banking** Akber Dattoo 2019-06-17 A practical, informative guide to banks' major weakness Legal Data for Banking defines the legal data domain in the context of financial institutions, and describes how banks can leverage these assets to optimise business lines and effectively manage risk. Legal data is at the heart of post-2009 regulatory reform, and practitioners need to deepen their grasp of legal data management in order to remain compliant with new rules focusing

on transparency in trade and risk reporting. This book provides essential information for IT, project management and data governance leaders, with detailed discussion of current and best practices. Many banks are experiencing recurrent pain points related to legal data management issues, so clear explanations of the required processes, systems and strategic governance provide immediately-relevant relief. The recent financial crisis following the collapse of major banks had roots in poor risk data management, and the regulators' unawareness of accumulated systemic risk stemming from contractual obligations between firms. To avoid repeating history, today's banks must be proactive in legal data management; this book provides the critical knowledge practitioners need to put the necessary systems and practices in place. Learn how current legal data management practices are hurting banks Understand the systems, structures and strategies required to manage risk and optimise business lines Delve into the regulations surrounding risk aggregation, netting, collateral enforceability and more Gain practical insight on legal data technology, systems and migration The legal contracts between firms contain significant obligations that underpin the financial markets; failing to recognise these terms as valuable data assets means increased risk exposure and untapped business lines. Legal Data for Banking provides critical information for the banking industry, with actionable guidance for implementation.

*Natural Language Processing for Social Media* Atefeh Farzindar  
2017-12-15 In recent years, online social networking has revolutionized interpersonal communication. The newer research on language analysis in social media has been increasingly focusing on the latter's impact on our daily lives, both on a personal and a professional level. Natural language processing (NLP) is one of the most promising avenues for social media data processing. It is a scientific challenge to develop powerful methods and algorithms which extract relevant information from a large volume of data coming from multiple sources and languages in various formats or in free form. We discuss the challenges in analyzing social media texts in contrast with traditional documents. Research methods in information extraction, automatic categorization and



clustering, automatic summarization and indexing, and statistical machine translation need to be adapted to a new kind of data. This book reviews the current research on NLP tools and methods for processing the non-traditional information from social media data that is available in large amounts (big data), and shows how innovative NLP approaches can integrate appropriate linguistic information in various fields such as social media monitoring, healthcare, business intelligence, industry, marketing, and security and defence. We review the existing evaluation metrics for NLP and social media applications, and the new efforts in evaluation campaigns or shared tasks on new datasets collected from social media. Such tasks are organized by the Association for Computational Linguistics (such as SemEval tasks) or by the National Institute of Standards and Technology via the Text REtrieval Conference (TREC) and the Text Analysis Conference (TAC). In the concluding chapter, we discuss the importance of this dynamic discipline and its great potential for NLP in the coming decade, in the context of changes in mobile technology, cloud computing, virtual reality, and social networking. In this second edition, we have added information about recent progress in the tasks and applications presented in the first edition. We discuss new methods and their results. The number of research projects and publications that use social media data is constantly increasing due to continuously growing amounts of social media data and the need to automatically process them. We have added 85 new references to the more than 300 references from the first edition. Besides updating each section, we have added a new application (digital marketing) to the section on media monitoring and we have augmented the section on healthcare applications with an extended discussion of recent research on detecting signs of mental illness from social media.

*The Refugee in International Law* Guy S. Goodwin-Gill 2021 Millions of people are today forced to flee their homes as a result of conflict, systematic discrimination, or other forms of persecution. The core instruments on which they must rely to secure international protection are the 1951 Convention Relating to the Status of Refugees and its 1967 Protocol. This book, the leading text in the field, examines key challenges

to the Convention such as the status of refugees, applications for asylum, and the international and domestic standards of protection. The situation of refugees is one of the most pressing and urgent problems facing the international community and refugee law has grown in recent years to a subject of global importance. In this long-awaited fourth edition each chapter has been thoroughly revised and updated and every issue, old and new, has received fresh analysis. The book includes: analysis of internally displaced persons; so-called preventive protection; access to refugees; safety of refugees and relief personnel; the situation of refugee women and children; a detailed examination of the role of the UNHCR and the Palestinian situation; and an assessment of the protection possibilities (or lack of them) in the European Convention on Human Rights. This new edition has been expanded with coverage of forced migration and displacement as a result of disasters and climate change. It is once again an unmissable reference work for practitioners and students in the field.

*The Languages and Linguistics of South Asia* Hans Henrich Hock 2016-05-24 With nearly a quarter of the world's population, members of at least five major language families plus several putative language isolates, South Asia is a fascinating arena for linguistic investigations, whether comparative-historical linguistics, studies of language contact and multilingualism, or general linguistic theory. This volume provides a state-of-the-art survey of linguistic research on the languages of South Asia, with contributions by well-known experts. Focus is both on what has been accomplished so far and on what remains unresolved or controversial and hence offers challenges for future research. In addition to covering the languages, their histories, and their genetic classification, as well as phonetics/phonology, morphology, syntax, and sociolinguistics, the volume provides special coverage of contact and convergence, indigenous South Asian grammatical traditions, applications of modern technology to South Asian languages, and South Asian writing systems. An appendix offers a classified listing of major sources and resources, both digital/online and printed.

**Smart Grids** Stuart Borlase 2017-11-22 The latest edition features a

new chapter on implementation and operation of an integrated smart grid with updates to multiple chapters throughout the text. New sections on Internet of things, and how they relate to smart grids and smart cities, have also been added to the book. It describes the impetus for change in the electric utility industry and discusses the business drivers, benefits, and market outlook of the smart grid initiative. The book identifies the technical framework of enabling technologies and smart solutions and describes the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort. With chapters written by leading experts in the field, the text explains how to plan, integrate, implement, and operate a smart grid.

**The New Rules of Marketing & PR** David Meerman Scott 2013-06-19 The benchmark guide to marketing and PR, updated with the latest social media and marketing trends, tools, and real-world examples of success The New Rules of Marketing & PR, 4th Edition is the pioneering guide to the future of marketing, an international bestseller with more than 300,000 copies sold in over 25 languages. It offers a step-by-step action plan for harnessing the power of modern marketing and PR to communicate with buyers directly, raise visibility, and increase sales. It shows how large and small companies, nonprofits, and other organizations can leverage Web-based content to get the right information to the right people at the right time for a fraction of the cost of big-budget campaigns. Including a wealth of compelling case studies and real-world examples of content marketing and inbound marketing success, this is a practical guide to the new reality of reaching buyers when they're eager to hear from you. Includes updated information, examples, and case studies plus an examination of newly popular tools such as Infographics, photo-sharing using Pinterest and Instagram, as well as expanded information on social media such as YouTube, Twitter, Facebook, and LinkedIn David Meerman Scott is a marketing strategist, bestselling author of eight books including three international bestsellers, advisor to emerging companies including HubSpot, and a professional speaker on topics including marketing, leadership, and

social media. Prior to starting his own business, he was marketing VP for two U.S. publicly traded companies and was Asia marketing director for Knight-Ridder, at the time one of the world's largest information companies. The New Rules of Marketing & PR offers the single resource for entrepreneurs, business owners, nonprofit managers as well as those working in marketing or publicity departments to build a marketing and PR strategy to grow any business.

*High Performance Computer Applications* Isidoro Gitler 2016-04-07 This book constitutes the refereed proceedings of the 6th International Conference on Supercomputing, ISUM 2015, held in México, Mexico, in March 2015. The 38 revised full papers presented were carefully reviewed and selected from 102 submissions. The papers are organized in topical sections on perspectives in supercomputer infrastructure and applications; parallel algorithms and optimization; HPC applications and simulations;

*Smart Grid Handbook, 3 Volume Set* 2016-08-01 Comprehensive, cross-disciplinary coverage of Smart Grid issues from global expert researchers and practitioners. This definitive reference meets the need for a large scale, high quality work reference in Smart Grid engineering which is pivotal in the development of a low-carbon energy infrastructure. Including a total of 83 articles across 3 volumes The Smart Grid Handbook is organized in to 6 sections: Vision and Drivers, Transmission, Distribution, Smart Meters and Customers, Information and Communications Technology, and Socio-Economic Issues. Key features: Written by a team representing smart grid R&D, technology deployment, standards, industry practice, and socio-economic aspects. Vision and Drivers covers the vision, definitions, evolution, and global development of the smart grid as well as new technologies and standards. The Transmission section discusses industry practice, operational experience, standards, cyber security, and grid codes. The Distribution section introduces distribution systems and the system configurations in different countries and different load areas served by the grid. The Smart Meters and Customers section assesses how smart meters enable the customers to interact with the power grid. Socio-

economic issues and information and communications technology requirements are covered in dedicated articles. The Smart Grid Handbook will meet the need for a high quality reference work to support advanced study and research in the field of electrical power generation, transmission and distribution. It will be an essential reference for regulators and government officials, testing laboratories and certification organizations, and engineers and researchers in Smart Grid-related industries.

**Advanced Solutions in Power Systems** Mircea Eremia 2016-10-03

Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC-HVDC and VSC-HVDC technologies, the second part presents the FACTS devices, and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems, from planning and monitoring to operation and control Each chapter is carefully edited, with drawings and illustrations that helps the reader to easily understand the principles of operation or application Advanced Solutions in Power Systems: HVDC, FACTS, and Artificial Intelligence is written for graduate students, researchers in transmission and distribution networks, and power system operation. This book also serves as a reference for professional software developers and practicing engineers.

*China Satellite Navigation Conference (CSNC) 2015 Proceedings: Volume I* Jiadong Sun 2015-04-21 China Satellite Navigation Conference (CSNC) 2015 Proceedings presents selected research papers from

CSNC2015, held during 13th-15th May in Xian, China. The theme of CSNC2015 is Opening-up, Connectivity and Win-win. 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 10 topics to match the corresponding sessions in CSNC2015, 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); LIU Jingnan is a professor at Wuhan University. FAN Shiwei is a researcher at China Satellite Navigation Office; LU Xiaochun is an academician of Chinese Academy of Sciences (CAS).

**Scramjet Propulsion** Dora Musielak 2022-11-16 Scramjet Propulsion Explore the cutting edge of HAP technologies with this comprehensive resource from an international leader in her field Scramjet Propulsion: A Practical Introduction delivers a comprehensive treatment of hypersonic air breathing propulsion and its applications. The book covers the most up-to-date hypersonic technologies, like endothermic fuels, fuel injection and flameholding systems, high temperature materials, and TPS, and offers technological overviews of hypersonic flight platforms like the X-43A, X-51A, and HiFIRE. It is organized around easy-to-understand explanations of technical challenges and provides extensive references for the information contained within. The highly accomplished author provides readers with a fulsome description of the theoretical underpinnings of hypersonic technologies, as well as critical design and technology issues affecting hypersonic air breathing propulsion technologies. The book's combination of introductory theory and advanced instruction about individual hypersonic engine components is ideal for students and practitioners in fields as diverse as hypersonic vehicle and propulsion development for missile defense technologies, launch aerospaceplanes, and civilian transports. Over 250 illustrations and tables round out the material. Readers will also learn from: A thorough introduction to hypersonic flight, hypersonic vehicle concepts,



and a review of fundamental principles in hypersonic air breathing propulsion Explorations of the aerothermodynamics of scramjet engines and the design of scramjet components, as well as hypersonic air breathing propulsion combustors and fuels Analyses of dual-mode combustion phenomena, materials structures, and thermal management in hypersonic vehicles, and combined cycle propulsion An examination of CFD analysis, ground and flight testing, and simulation Perfect for researchers and graduate students in aerospace engineering, Scramjet Propulsion: A Practical Introduction is also an indispensable addition to the libraries of engineers working on hypersonic vehicle development seeking a state-of-the-art resource in one of the most potentially disruptive areas of aerospace research today.

Contemporary Topics in Finance Iris Claus 2019-04-29 The literature surveys presented in this edited volume provide readers with up-to-date reviews on eleven contemporary topics in finance. Topics include unconventional monetary policy, implicit bank guarantees, and financial fraud - all linked to the exceptional event of the Global Financial Crisis Explores how recent studies on inflation risk premia and finance and productivity have benefitted from new empirical methods and the availability of relevant data Demonstrates how angel investing, venture capital, relationship lending and microfinance have benefitted from increased research as they have become more seasoned Investigates crowdfunding and crypto-currencies which have both arisen from recent technological developments

**Blockchain for Distributed Systems Security** Sachin Shetty 2019-04-16 AN ESSENTIAL GUIDE TO USING BLOCKCHAIN TO PROVIDE FLEXIBILITY, COST-SAVINGS, AND SECURITY TO DATA MANAGEMENT, DATA ANALYSIS, AND INFORMATION SHARING Blockchain for Distributed Systems Security contains a description of the properties that underpin the formal foundations of Blockchain technologies and explores the practical issues for deployment in cloud and Internet of Things (IoT) platforms. The authors—noted experts in the field—present security and privacy issues that must be addressed for Blockchain technologies to be adopted for civilian and military domains.

The book covers a range of topics including data provenance in cloud storage, secure IoT models, auditing architecture, and empirical validation of permissioned Blockchain platforms. The book's security and privacy analysis helps with an understanding of the basics of Blockchain and it explores the quantifying impact of the new attack surfaces introduced by Blockchain technologies and platforms. In addition, the book contains relevant and current updates on the topic. This important resource: Provides an overview of Blockchain-based secure data management and storage for cloud and IoT Covers cutting-edge research findings on topics including invariant-based supply chain protection, information sharing framework, and trust worthy information federation Addresses security and privacy concerns in Blockchain in key areas, such as preventing digital currency miners from launching attacks against mining pools, empirical analysis of the attack surface of Blockchain, and more Written for researchers and experts in computer science and engineering, Blockchain for Distributed Systems Security contains the most recent information and academic research to provide an understanding of the application of Blockchain technology.

**Fast Software Encryption** Gregor Leander 2015-08-11 This book constitutes the thoroughly refereed post-conference proceedings of the 22nd International Workshop on Fast Software Encryption, held in Istanbul, Turkey, March 8-11, 2015. The 28 revised full papers presented were carefully reviewed and selected from 71 initial submissions. The papers are organized in topical sections on block cipher cryptanalysis; understanding attacks; implementation issues; more block cipher cryptanalysis; cryptanalysis of authenticated encryption schemes; proofs; design; lightweight; cryptanalysis of hash functions and stream ciphers; and mass surveillance.

**Geological Survey Water-supply Paper** 1951

Mathematical and Engineering Methods in Computer Science Jan Kofroň 2016-02-03 This volume contains the post-conference proceedings of the 10th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, MEMICS 2015, held in Telč, Czech Republic, in October 2015. The 10 thoroughly revised full papers were carefully

selected out of 25 submissions and are presented together with 3 invited papers. The topics covered include: security and safety, bioinformatics, recommender systems, high-performance and cloud computing, and non-traditional computational models (quantum computing, etc.).

**Gender, Imperialism and Global Exchanges** Stephan F. Miescher  
2015-03-09 Gender, Imperialism and Global Exchanges presents a collection of original readings that address gendered dimensions of empire from a wide range of geographical and temporal settings. Draws on original research on gender and empire in relation to labour, commodities, fashion, politics, mobility, and visibility Includes coverage of gender issues from countries in Africa, the Americas, Europe, and Asia between the eighteenth to twentieth centuries Highlights a range of transnational and transregional connections across the globe Features innovative gender analyses of the circulation of people, ideas, and cultural practices

**English Language Learning in the Digital Age** Mark Dressman  
2023-04-10 ENGLISH LANGUAGE LEARNING IN THE DIGITAL AGE  
'The Digital Age has transformed our learning, particularly for adolescents and young adults. This book puts forward innovative methods and observations from which both teachers and students could greatly benefit in the Digital Age. As such, this is a much needed and timely book. I strongly recommend it to all who are interested in language learning.' —Jieun Kiaer, University of Oxford  
'The authors have created a thoroughly documented, research-based, practical toolkit for 21st-century English language educators worldwide, using compelling storytelling and interactive suggestion. I would use it for teacher training in a flash.' —Denyze Toffoli, Université Paul Sabatier Toulouse III, IUT-A  
English Language Learning in the Digital Age is a comprehensive introduction to the theoretical background and real-world application of IDLE (Informal Digital Learning of English). Designed for teachers and future teachers preparing to teach English as a second or other

language, this highly practical guide focuses on incorporating digital technology into curricula to draw upon the extracurricular exposures to English that many students experience outside of the classroom. With some creativity and care, teachers can find ways to bring these experiences with English into the classroom, ultimately improving student learning outcomes. Offering a specific focus on examples and case studies drawn from language education in the Middle East, Asia, and Europe, this text employs a three-part structure beginning with the theories behind autonomous learning and the importance of informal language learning for young adults. Part two demonstrates various methods for integrating games, social media, e-books, language software, mobile apps, and other digital resources into the classroom. The third section addresses the use of IDLE methods to bridge the gap between informal and formal uses of English, the advantages and disadvantages of IDLE in flipped classrooms and online teaching, and how IDLE strategies can enhance mandated curricula and better prepare students for national exams. The book concludes with a brief discussion of the future of language learning and the need to include digital technologies and learner-driven strategies in education policy. English Language Learning in the Digital Age is an ideal textbook for upper-level undergraduate and graduate students in the fields of language education and language acquisition, as well as teachers and teachers-in-training who are preparing to teach English in countries where English is not the primary language.

**Wiley CPAexcel Exam Review 2015 Study Guide (January)** O. Ray Whittington  
2014-12-03 The world's most effective CPA exam prep system - Regulation module Wiley CPAexcel Exam Review is the world's most trusted study guide for the Certified Public Accountant's exam - complete, comprehensive, and updated to align with the latest exam content. With 2,800 practice questions and solutions across four volumes, the unique modular format helps you organize your study program, zeroing in on areas that need work. This volume, Regulation, contains all current AICPA content requirements, providing total coverage of this section of the exam. You get the detailed outlines and

study tips, simulation and multiple choice questions, and skill-building problems that have made this guide the most effective CPA prep system for over thirty years. The uniform CPA exam is updated annually to include new laws, regulations, and guidelines, so it's important that your study guide be up to date as well. Wiley CPAexcel Exam Review is updated annually to reflect the latest version of the exam, and is the number-one bestselling CPA study guide in the world because it provides full, comprehensive coverage of all exam content, and more practice questions than any other guide - many of which are taken directly from past exams. The unique format allows you to: Identify, target, and master problem areas section by section Learn how to logically build your knowledge stores for better recall Practice with thousands of sample questions taken from past exams Review all exam content, including the newest guidelines and regulations No one wants surprises on exam day, and thorough preparation is the key to successful performance. Whether you're embarking on a new study program, or just need a quick refresher before the exam, Wiley CPAexcel Exam Review is proven to be the most current, complete, comprehensive prep you can get.

**Engineered Ceramics** Tatsuki Ohji 2016-02-01 In this book project, all the American Ceramic Society's Engineering Ceramics Division Mueller and Bridge Building Award Winners, the ICACC Plenary Speakers and the past Engineering Ceramics Division Chairs have been invited to write book chapters on a topic that is compatible with their technical interests and consistent with the scope of the book, which is to focus on the current status and future prospects of various technical topics related to engineering ceramics, advanced ceramics and composite materials. Topics include: Mechanical Behavior and Performance of Ceramics & Composites Non-Destructive Evaluation and Mechanical Testing of Engineering Ceramics Brittle and Composite Material Design Modern Fracture Mechanics of Ceramics Thermal/Environmental Barrier Coatings Advanced Ceramic Coatings for Functional Applications Advanced Ceramic Joining Technologies Ceramics for Machining, Friction, Wear, and Other Tribological Applications Ceramic Composites for High-Temperature Aerospace Structures and Propulsion Systems

Thermal Protection Materials: From Retrospect to Foresight  
Carbon/Carbon Composites Ceramic-Matrix Composites for Lightweight Construction Ultra High-Temperature Ceramics (UHTC) Nanolaminated Ternary Carbides and Nitrides (MAX Phases) Ceramics for Heat Engine and Other Energy Related Applications Solid Oxide Fuel Cells (SOFC) Armor Ceramics Next Generation Bioceramics Ceramics for Innovative Energy and Storage Systems Designing Ceramics for Electrochemical Energy Storage Devices Nanostructured Materials and Nanotechnology Advanced Ceramic Processing and Manufacturing Technologies Engineering Porous Ceramics Thermal Management Materials and Technologies Geopolymers Advanced Ceramic Sensor Technology Advanced Ceramics and Composites for Nuclear and Fusion Applications Advanced Ceramic Technologies for Rechargeable Batteries

**Global Business Cycles and Developing Countries** Eri Ikeda 2019-09-17 This book investigates how global business cycles impact the economies of developing countries. Global business cycles, the wave-like movements of economic expansion followed by contraction in aggregate economic activities, impact all economies comprising the global economy. The patterns being shown in developing countries correspond increasingly to those in the global north, and yet there is a relative dearth of studies exploring whether global business cycles exist and how they operate in developing economies. This book explores how cycles operate at the global and sub-global developing country levels, with a particular focus on the level of development and the structure of the economies. Drawing an important distinction between cycles and fluctuations, the book criticises mainstream conceptualisation and identification of cycle phenomena, and instead proposes an alternative conception and methodology for the identification of cycles. Along the way, the book also delves into the manufacturing and rise of China, and other potential competitors in the industrial arena, as increasingly important drivers of global cycles and global economic growth. This book will be an important read for researchers and upper-level students of development economics and international political economy.

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