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NEW APPROACHES IN COMMERCE, ECONOMICS, ENGINEERING, HUMANITIES, ARTS, SOCIAL SCIENCES AND MANAGEMENT: CHALLENGES AND OPPORTUNITIES

Forschung Publications

PROPOSED CANADIAN NATIONAL RAILWAY COMPANY ACQUISITION OF THE ELGIN, JOLIET & EASTERN RAILWAY COMPANY

ENVIRONMENTAL IMPACT STATEMENT

THE OPEN SOCIETY AND ITS ENEMIES

Princeton University Press A landmark defense of democracy that has been hailed as one of the most important books of the twentieth century One of the most important books of the twentieth century, *The Open Society and Its Enemies* is an uncompromising defense of liberal democracy and a powerful attack on the intellectual origins of totalitarianism. An immediate sensation when it was first published, Karl Popper's monumental achievement has attained legendary status on both the Left and Right. Tracing the roots of an authoritarian tradition represented by Plato, Marx, and Hegel, Popper argues that the spirit of free, critical inquiry that governs scientific investigation should also apply to politics. In a new foreword, George Soros, who was a student of Popper, describes the "revelation" of first reading the book and how it helped inspire his philanthropic Open Society Foundations.

MATERIALS, STRUCTURES AND MANUFACTURING FOR AIRCRAFT

Springer Nature This book offers a comprehensive look at materials science topics in aerospace, air vehicle structures and manufacturing methods for aerospace products, examining recent trends and new technological developments. Coverage includes additive manufacturing, advanced material removal operations, novel wing systems, design of landing gear, eco-friendly aero-engines, and light alloys, advanced polymers, composite materials and smart materials for structural components. Case studies and coverage of practical applications demonstrate how these technologies are being successfully deployed. *Materials, Structures & Manufacturing for Aircraft* will appeal to a broad readership in the aviation community, including students, engineers, scientists, and researchers, as a reference source for material science and modern production techniques.

SUSTAINABLE TRANSPORTATION PLANNING

TOOLS FOR CREATING VIBRANT, HEALTHY, AND RESILIENT COMMUNITIES

John Wiley & Sons "The Great American Dream of cruising down the parkway, zipping from here to there at any time has given way to a true nightmare that is destroying the environment, costing billions and deeply impacting our personal well-being. Getting from A to B has never been more difficult, expensive or miserable. It doesn't have to be this way. Jeffrey Tumin's book *Sustainable Transportation Planning* offers easy-to-understand, clearly explained tips and techniques that will allow us to quite literally take back our roads. Essential reading for anyone who wants to drive our transportation system out of the gridlock." -Marianne Cusato, home designer and author of *Get Your House Right: Architectural Elements to Use and Avoid* ?The book is full of useful ideas on nearly every page.? ? Bill DiBenedetto of Triple Pundit As transportations-related disciplines of urban planning, architecture, landscape architecture, urban economics, and social policy have undergone major internal reform efforts in recent decades Written in clear, easy-to-follow language, this book provides planning practitioners with the tools they need to achieve their cities' economic development, social equity and ecological sustainability goals. Starting with detailed advice for improving each mode of transportation, the book offers guidance on balancing the needs of each mode against each other, whether on a downtown street, or a small town neighborhood, or a regional network.

DESIGNING FOR HUMAN RELIABILITY

HUMAN FACTORS ENGINEERING IN THE OIL, GAS, AND PROCESS INDUSTRIES

Gulf Professional Publishing Industry underestimates the extent to which behaviour at work is influenced by the design of the working environment. *Designing for Human Reliability* argues that greater awareness of the contribution of design to human error can significantly enhance HSE performance and improve return on investment. Illustrated with many examples, *Designing for Human Reliability* explores why work systems are designed and implemented such that "design-induced human error" becomes more-or-less inevitable. McLeod demonstrates how well understood psychological processes can lead people to make decisions and to take actions that otherwise seem impossible to understand. *Designing for Human Reliability* sets out thirteen key elements to deliver the levels of human reliability expected to achieve the return on investment sought when decisions are made to invest in projects. And it demonstrates how investigation of the human contribution to incidents can be improved by focusing on what companies expected and intended when they chose to rely on human performance as a barrier, or control, against incidents. Recognise some 'hard truths' of human performance and learn about the importance of applying the principles of Human Factors Engineering on capital projects Learn from analysis of real-world incidents how differences between 'fast' and 'slow' styles of thinking can lead to human error in industrial processes Learn how controls and barrier against major incidents that rely on human performance can be strengthened throughout the design and development of assets and equipment

PARENTERAL MEDICATIONS, FOURTH EDITION

CRC Press Parenteral Medications is an authoritative, comprehensive reference work on the formulation and manufacturing of parenteral dosage forms, effectively balancing theoretical considerations with practical aspects of their development. Previously published as a three-volume set, all volumes have been combined into one comprehensive publication that addresses the plethora of changes in the science and considerable advances in the technology associated with these products and routes of administration. Key Features: Provides a comprehensive reference work on the formulation and manufacturing of parenteral dosage forms Addresses changes in the science and advances in the technology associated with parenteral medications and routes of administration Includes 13 new chapters and updated chapters throughout Contains the contributors of leading researchers in the field of parenteral medications Uses full color detailed illustrations, enhancing the learning process The fourth edition not only reflects enhanced content in all the chapters but also highlights the rapidly advancing formulation, processing, manufacturing parenteral technology including advanced delivery and cell therapies. The book is divided into seven sections: Section 1 - Parenteral Drug Administration and Delivery Devices; Section 2 - Formulation Design and Development; Section 3 - Specialized Drug Delivery Systems; Section 4 - Primary Packaging and Container Closure Integrity; Section 5 - Facility Design and Environmental Control; Section 6 - Sterilization and Pharmaceutical Processing; Section 7 - Quality Testing and Regulatory Requirements

GREEN ENGINEERING

ENVIRONMENTALLY CONSCIOUS DESIGN OF CHEMICAL PROCESSES

Pearson Education A chemical engineer's guide to managing and minimizing environmental impact. Chemical processes are invaluable to modern society, yet they generate substantial quantities of wastes and emissions, and safely managing these wastes costs tens of millions of dollars annually. *Green Engineering* is a complete professional's guide to the cost-effective design, commercialization, and use of chemical processes in ways that minimize pollution at the source, and reduce impact on health and the environment. This book also offers powerful new insights into environmental risk-based considerations in design of processes and products. First conceived by the staff of the U.S. Environmental Protection Agency, *Green Engineering* draws on contributions from many leaders in the field and introduces advanced risk-based techniques including some currently in use at the EPA. Coverage includes: Engineering chemical processes, products, and systems to reduce environmental impacts Approaches for evaluating emissions and hazards of chemicals and processes Defining effective environmental performance targets Advanced approaches and tools for evaluating environmental fate Early-stage design and development techniques that minimize costs and environmental impacts In-depth coverage of unit operation and flowsheet analysis The economics of environmental improvement projects Integration of chemical processes with other material processing operations Lifecycle assessments: beyond the boundaries of the plant Increasingly, chemical engineers are faced with the challenge of integrating environmental objectives into design decisions. *Green Engineering* gives them the technical tools they need to do so.

DIAGNOSTICS AND PROGNOSTICS OF ENGINEERING SYSTEMS: METHODS AND TECHNIQUES

METHODS AND TECHNIQUES

IGI Global Industrial Prognostics predicts an industrial system's lifespan using probability measurements to determine the way a machine operates. Prognostics are essential in determining being able to predict and stop failures before they occur. Therefore the development of dependable prognostic procedures for engineering systems is important to

increase the system's performance and reliability. **Diagnostics and Prognostics of Engineering Systems: Methods and Techniques** provides widespread coverage and discussions on the methods and techniques of diagnosis and prognosis systems. Including practical examples to display the method's effectiveness in real-world applications as well as the latest trends and research, this reference source aims to introduce fundamental theory and practice for system diagnosis and prognosis.

FORMAL APPROACHES TO AGENT-BASED SYSTEMS

SECOND INTERNATIONAL WORKSHOP, FAABS 2002, GREENBELT, MD, USA, OCTOBER 29-31, 2002, REVISED PAPERS

Springer The idea of a FAABS workshop was first conceived in 1998 at the NASA Goddard Space Flight Center, while the Agent Technology Development Group in the Advanced Architectures and Automation Branch (Code 588) was developing a prototype agent community to automate satellite ground operations. While developing this system, several race conditions arose within and between agents. Due to the complexity of the agents and the communications between them, it was decided that a formal approach was needed to specify the agents and the communications between them, so that the system could be checked for additional errors. A formal model of the inter-agent communications was developed, with the expectation that this would enable us to find more errors. Success in this convinced us of the importance of using formal methods to model agent-based systems. To share our own experiences and to learn how others were approaching these issues, we decided to hold a workshop on formal methods and agent-based systems. The response was overwhelming. The result was the first FAABS workshop, which was held at the NASA Goddard Space Flight Center. Posters, paper presentations, panels, and an invited talk by J Moore stimulated much discussion and subsequent collaboration.

ADMINISTRATIVE MANAGEMENT: SETTING PEOPLE UP FOR SUCCESS

Cengage Learning Master the skills you need for success in today's rapidly changing work environment with the useful, practical management tools and insights found only in **ADMINISTRATIVE MANAGEMENT: SETTING PEOPLE UP FOR SUCCESS**. Discover the keys to functioning at the highest level in today's professional work environment. This unique book helps you both navigate and respond effectively to contemporary work challenges. The authors use their extensive experience to emphasize practical, valuable tools that truly set you up for success. A concise, reader-friendly approach introduces basic, critical management concepts that help you fully understand the goals, functions, and responsibilities of managers. You learn how to identify opportunities to package your skills and sell your strengths for both immediate and long-term professional success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

HVDC/FACTS FOR GRID SERVICES IN ELECTRIC POWER SYSTEMS

MDPI Electric power systems are headed for a true changing of the guard, due to the urgent need for achieving sustainable energy delivery. Fortunately, the development of new technologies is driving the transition of power systems toward a carbon-free paradigm while maintaining the current standards of quality, efficiency, and resilience. The introduction of HVDC and FACTS in the 20th century, taking advantage of dramatic improvements in power electronics and control, gave rise to unprecedented levels of flexibility and speed of response in comparison with traditional electromechanical devices. This flexibility is nowadays required more than ever in order to solve a puzzle with pieces that do not always fit perfectly. This Special Issue aims to address the role that FACTS and HVDC systems can play in helping electric power systems face the challenges of the near future.

COMPLEXITY IN INTERNATIONAL SECURITY

A HOLISTIC SPATIAL APPROACH

Emerald Group Publishing Leading international security expert Peter Sapaty introduces a new, high-level distributed processing and control approach capable of finding real-time solutions for irregularities, crises, and security problems emerging any time and in any part of the world.

DOWNSTREAM INDUSTRIAL BIOTECHNOLOGY

RECOVERY AND PURIFICATION

John Wiley & Sons **DOWNSTREAM INDUSTRIAL BIOTECHNOLOGY** An affordable, easily accessible desk reference on biomanufacturing, focused on downstream recovery and purification Advances in the fundamental knowledge surrounding biotechnology, novel materials, and advanced engineering approaches continue to be translated into bioprocesses that bring new products to market at a significantly faster pace than most other industries. Industrial scale biotechnology and new manufacturing methods are revolutionizing medicine, environmental monitoring and remediation, consumer products, food production, agriculture, and forestry, and continue to be a major area of research. The downstream stage in industrial biotechnology refers to recovery, isolation, and purification of the microbial products from cell debris, processing medium and contaminating biomolecules from the upstream process into a finished product such as biopharmaceuticals and vaccines. Downstream process design has the greatest impact on overall biomanufacturing cost because not only does the biochemistry of different products (e.g., peptides, proteins, hormones, antibiotics, and complex antigens) dictate different methods for the isolation and purification of these products, but contaminating byproducts can also reduce overall process yield, and may have serious consequences on clinical safety and efficacy. Therefore downstream separation scientists and engineers are continually seeking to eliminate, or combine, unit operations to minimize the number of process steps in order to maximize product recovery at a specified concentration and purity. Based on Wiley's Encyclopedia of Industrial Biotechnology: Bioprocess, Bioseparation, and Cell Technology, this volume features fifty articles that provide information on down- stream recovery of cells and protein capture; process development and facility design; equipment; PAT in downstream processes; downstream cGMP operations; and regulatory compliance. It covers: Cell wall disruption and lysis Cell recovery by centrifugation and filtration Large-scale protein chromatography Scale down of biopharmaceutical purification operations Lipopolysaccharide removal Porous media in biotechnology Equipment used in industrial protein purification Affinity chromatography Antibody purification, monoclonal and polyclonal Protein aggregation, precipitation and crystallization Freeze-drying of biopharmaceuticals Biopharmaceutical facility design and validation Pharmaceutical bioburden testing Regulatory requirements Ideal for graduate and advanced undergraduate courses on biomanufacturing, biochemical engineering, biopharmaceutical facility design, biochemistry, industrial microbiology, gene expression technology, and cell culture technology, Downstream Industrial Biotechnology is also a highly recommended resource for industry professionals and libraries.

HANDBOOK ON DATA CENTERS

Springer This handbook offers a comprehensive review of the state-of-the-art research achievements in the field of data centers. Contributions from international, leading researchers and scholars offer topics in cloud computing, virtualization in data centers, energy efficient data centers, and next generation data center architecture. It also comprises current research trends in emerging areas, such as data security, data protection management, and network resource management in data centers. Specific attention is devoted to industry needs associated with the challenges faced by data centers, such as various power, cooling, floor space, and associated environmental health and safety issues, while still working to support growth without disrupting quality of service. The contributions cut across various IT data technology domains as a single source to discuss the interdependencies that need to be supported to enable a virtualized, next-generation, energy efficient, economical, and environmentally friendly data center. This book appeals to a broad spectrum of readers, including server, storage, networking, database, and applications analysts, administrators, and architects. It is intended for those seeking to gain a stronger grasp on data center networks: the fundamental protocol used by the applications and the network, the typical network technologies, and their design aspects. The Handbook of Data Centers is a leading reference on design and implementation for planning, implementing, and operating data center networks.

FOUNDATIONS OF EDUCATION: AN EMS APPROACH

Jones & Bartlett Learning The evolving field of emergency medical services (EMS) requires professional educators who are knowledgeable about teaching and learning strategies, classroom management, assessment and evaluation, technology in learning, legal implications in education, program infrastructure design, and administering programs of excellence to meet state and national accreditation guidelines. **Foundations of Education: An EMS Approach, Third Edition**, provides EMS educators with the tools, ideas, and information necessary to succeed in each of these areas. The content reflects how current educational knowledge and theory uniquely apply to EMS students, educators, and programs. This textbook is used in the NAEMSE Instructor Courses, and is an excellent reference for all EMS educators, as well as educators in allied health professions. Evidence-Based Content In addition to foundational topics such as teaching philosophy and classroom management, the text covers brain-based learning, accreditation and program evaluation, emerging technologies, and assessment strategies. It guides educators to write objectives, prepare lesson plans, and deliver education in engaging ways to maximize student learning. Grounded in this information, EMS educators can promote effective education regardless of the type of course or setting. Highlights -Covers current educational theory and teaching methodologies specific to EMS -Meets and exceeds the latest DOT National Guidelines for Educating EMS Instructors -Offer practical advice and scenarios in the form of Teaching Tips and Case in Points

THE EMPLOYMENT ON OFFSHORE DRILLING RIGS COMPLETE EBOOK

Petrogav International This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 304 video movies for a better understanding of the technological process and 187 web addresses to recruitment companies where you may apply for a job.

EVALUATION OF HSDPA AND LTE

FROM TESTBED MEASUREMENTS TO SYSTEM LEVEL PERFORMANCE

John Wiley & Sons This book explains how the performance of modern cellular wireless networks can be evaluated by measurements and simulations With the roll-out of LTE, high data throughput is promised to be available to cellular users. In case you have ever wondered how high this throughput really is, this book is the right read for you: At first, it presents results from experimental research and simulations of the physical layer of HSDPA, WiMAX, and LTE. Next, it explains in detail how measurements on such systems need to be performed in order to achieve reproducible and repeatable results. The book further addresses how wireless links can be evaluated by means of standard-compliant link-level simulation. The major challenge in this context is their complexity when investigating complete wireless cellular networks. Consequently, it is shown how system-level simulators with a higher abstraction level can be designed such that their results still match link-level simulations. Exemplarily, the book finally presents optimizations of wireless systems over several cells. This book: Explains how the performance of modern cellular wireless networks can be evaluated by measurements and simulations Discusses the concept of testbeds, highlighting the challenges and expectations when building them Explains measurement techniques, including the evaluation of the measurement quality by statistical inference techniques Presents throughput results for HSDPA, WiMAX, and LTE Demonstrates simulators at both, link- level and system-level Provides system-level and link-level simulators (for WiMAX and LTE) on an accompanying website (<https://www.nt.tuwien.ac.at/downloads/featured-downloads>) This book is an insightful guide for researchers and engineers working in the field of mobile radio communication as well as network planning. Advanced students studying related courses will also find the book interesting.

HANDBOOK OF VALIDATION IN PHARMACEUTICAL PROCESSES, FOURTH EDITION

CRC Press Revised to reflect significant advances in pharmaceutical production and regulatory expectations, Handbook of Validation in Pharmaceutical Processes, Fourth Edition examines and blueprints every step of the validation process needed to remain compliant and competitive. This book blends the use of theoretical knowledge with recent technological advancements to achieve applied practical solutions. As the industry's leading source for validation of sterile pharmaceutical processes for more than 10 years, this greatly expanded work is a comprehensive analysis of all the fundamental elements of pharmaceutical and bio-pharmaceutical production processes. Handbook of Validation in Pharmaceutical Processes, Fourth Edition is essential for all global health care manufacturers and pharmaceutical industry professionals. Key Features: Provides an in-depth discussion of recent advances in sterilization Identifies obstacles that may be encountered at any stage of the validation program, and suggests the newest and most advanced solutions Explores distinctive and specific process steps, and identifies critical process control points to reach acceptable results New chapters include disposable systems, combination products, nano-technology, rapid microbial methods, contamination control in non-sterile products, liquid chemical sterilization, and medical device manufacture

ART OF DOING SCIENCE AND ENGINEERING

LEARNING TO LEARN

CRC Press Highly effective thinking is an art that engineers and scientists can be taught to develop. By presenting actual experiences and analyzing them as they are described, the author conveys the developmental thought processes employed and shows a style of thinking that leads to successful results is something that can be learned. Along with spectacular successes, the author also conveys how failures contributed to shaping the thought processes. Provides the reader with a style of thinking that will enhance a person's ability to function as a problem-solver of complex technical issues. Consists of a collection of stories about the author's participation in significant discoveries, relating how those discoveries came about and, most importantly, provides analysis about the thought processes and reasoning that took place as the author and his associates progressed through engineering problems.

ENCYCLOPEDIA OF IRON, STEEL, AND THEIR ALLOYS (ONLINE VERSION)

CRC Press The first of many important works featured in CRC Press' Metals and Alloys Encyclopedia Collection, the Encyclopedia of Iron, Steel, and Their Alloys covers all the fundamental, theoretical, and application-related aspects of the metallurgical science, engineering, and technology of iron, steel, and their alloys. This Five-Volume Set addresses topics such as extractive metallurgy, powder metallurgy and processing, physical metallurgy, production engineering, corrosion engineering, thermal processing, metalworking, welding, iron- and steelmaking, heat treating, rolling, casting, hot and cold forming, surface finishing and coating, crystallography, metallography, computational metallurgy, metal-matrix composites, intermetallics, nano- and micro-structured metals and alloys, nano- and micro-alloying effects, special steels, and mining. A valuable reference for materials scientists and engineers, chemists, manufacturers, miners, researchers, and students, this must-have encyclopedia: Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts, nomograms, and figures Contains cross referencing for quick and easy search Each entry is written by a subject-matter expert and reviewed by an international panel of renowned researchers from academia, government, and industry. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

COST ENGINEERING

A PUBLICATION OF THE AMERICAN ASSOCIATION OF COST ENGINEERS

SIMULATING SOCIAL COMPLEXITY

A HANDBOOK

Springer Social systems are among the most complex known. This poses particular problems for those who wish to understand them. The complexity often makes analytic approaches infeasible and natural language approaches inadequate for relating intricate cause and effect. However, individual- and agent-based computational approaches hold out the possibility of new and deeper understanding of such systems. Simulating Social Complexity examines all aspects of using agent- or individual-based simulation. This approach represents systems as individual elements having each their own set of differing states and internal processes. The interactions between elements in the simulation represent interactions in the target systems. What makes these elements "social" is that they are usefully interpretable as interacting elements of an observed society. In this, the focus is on human society, but can be extended to include social animals or artificial agents where such work enhances our understanding of human society. The phenomena of interest then result (emerge) from the dynamics of the interaction of social actors in an essential way and are usually not easily simplifiable by, for example, considering only representative actors. The introduction of accessible agent-based modelling allows the representation of social complexity in a more natural and direct manner than previous techniques. In particular, it is no longer necessary to distort a model with the introduction of overly strong assumptions simply in order to obtain analytic tractability. This makes agent-based modelling relatively accessible to a range of scientists. The outcomes of such models can be displayed and animated in ways that also make them more interpretable by experts and stakeholders. This handbook is intended to help in the process of maturation of this new field. It brings together, through the collaborative effort of many leading researchers, summaries of the best thinking and practice in this area and constitutes a reference point for standards against which future methodological advances are judged. This book will help those entering into the field to avoid "reinventing the wheel" each time, but it will also help those already in the field by providing accessible overviews of current thought. The material is divided into four sections: Introductory, Methodology, Mechanisms, and Applications. Each chapter starts with a very brief section called 'Why read this chapter?' followed by an abstract, which summarizes the content of the chapter. Each chapter also ends with a section of 'Further Reading' briefly describing three to eight items that a newcomer might read next.

QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE OIL & GAS PLATFORMS

Petrogav International The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 291 questions and answers for job interview and as a BONUS web addresses to 288 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE OIL & GAS PLATFORMS

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HANDBOOK OF RESEARCH ON DECISION SCIENCES AND APPLICATIONS IN THE TRANSPORTATION SECTOR

IGI Global The advancements in decision sciences theory and applications can be regarded as a continuously emerging field in all areas of interest including technology, industry, energy, healthcare, education, agriculture, social sciences, and more. Managers in all disciplines face an endless list of complex issues every day. One of the essential managerial skills is the ability to allocate and utilize limited resources appropriately in the efforts of achieving optimal performance efficiently. This is no less important for those who work in the transportation sector. The Handbook of Research on Decision Sciences and Applications in the Transportation Sector explores the importance of decision sciences and the ways in which they apply to the transportation sector. This book covers technologies and tools including machine learning, mathematical modeling, and simulation and their applications in such tasks as reducing fuel costs, improving passenger flow, and ensuring vehicle safety. It is an essential reference source for managers, professionals in the transport industry,

supply chain specialists, safety officers, IT consultants, executives, practitioners, scientists, students, researchers, and academicians.

THE AUDITOR'S GUIDE TO BLOCKCHAIN TECHNOLOGY

ARCHITECTURE, USE CASES, SECURITY AND ASSURANCE

CRC Press The 21st century has been host to a number of information systems technologies in the areas of science, automotive, aviation and supply chain, among others. But perhaps one of its most disruptive is blockchain technology whose origin dates to only 2008, when an individual (or perhaps a group of individuals) using the pseudonym Satoshi Nakamoto published a white paper entitled Bitcoin: A peer-to-peer electronic cash system in an attempt to address the threat of "double-spending" in digital currency. Today, many top-notch global organizations are already using or planning to use blockchain technology as a secure, robust and cutting-edge technology to better serve customers. The list includes such well-known corporate entities as JP Morgan, Royal Bank of Canada, Bank of America, IBM and Walmart. The tamper-proof attributes of blockchain, leading to immutable sets of transaction records, represent a higher quality of evidence for internal and external auditors. Blockchain technology will impact the performance of the audit engagement due to its attributes, as the technology can seamlessly complement traditional auditing techniques. Furthermore, various fraud schemes related to financial reporting, such as the recording of fictitious revenues, could be avoided or at least greatly mitigated. Frauds related to missing, duplicated and identical invoices can also be greatly curtailed. As a result, the advent of blockchain will enable auditors to reduce substantive testing as inherent and control audit risks will be reduced thereby greatly improving an audit's detection risk. As such, the continuing use and popularity of blockchain will mean that auditors and information systems security professionals will need to deepen their knowledge of this disruptive technology. If you are looking for a comprehensive study and reference source on blockchain technology, look no further than The Auditor's Guide to Blockchain Technology: Architecture, Use Cases, Security and Assurance. This title is a must read for all security and assurance professionals and students looking to become more proficient at auditing this new and disruptive technology.

COMPLETE EBOOK FOR EMPLOYMENT ON DRILLING PLATFORMS

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DOCUMENT ENGINEERING

ANALYZING AND DESIGNING DOCUMENTS FOR BUSINESS INFORMATICS & WEB SERVICES

Mit Press Analysis and design methods for document exchanges that combine and interconnect business processes and services on the Internet.

TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE OIL & GAS RIGS

Petrogav International The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

SOFTWARE ENGINEERING

A PRACTITIONER'S APPROACH

Palgrave Macmillan For over 20 years, Software Engineering: A Practitioner's Approach has been the best selling guide to software engineering for students and industry professionals alike. The sixth edition continues to lead the way in software engineering. A new Part 4 on Web Engineering presents a complete engineering approach for the analysis, design, and testing of Web Applications, increasingly important for today's students. Additionally, the UML coverage has been enhanced and significantly increased in this new edition. The pedagogy has also been improved in the new edition to include sidebars. They provide information on relevant software tools, specific work flow for specific kinds of projects, and additional information on various topics. Additionally, Pressman provides a running case study called "Safe Home" throughout the book, which provides the application of software engineering to an industry project. New additions to the book also include chapters on the Agile Process Models, Requirements Engineering, and Design Engineering. The book has been completely updated and contains hundreds of new references to software tools that address all important topics in the book. The ancillary material for the book includes an expansion of the case study, which illustrates it with UML diagrams. The On-Line Learning Center includes resources for both instructors and students such as checklists, 700 categorized web references, Powerpoints, a test bank, and a software engineering library-containing over 500 software engineering papers. TAKEAWAY HERE IS THE FOLLOWING: 1. AGILE PROCESS METHODS ARE COVERED EARLY IN CH. 42. NEW PART ON WEB APPLICATIONS --5 CHAPTERS

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

SAFETY AND HEALTH FOR ENGINEERS

John Wiley & Sons SAFETY AND HEALTH FOR ENGINEERS A comprehensive resource for making products, facilities, processes, and operations safe for workers, users, and the public. Ensuring the health and safety of individuals in the workplace is vital on an interpersonal level but is also crucial to limiting the liability of companies in the event of an onsite injury. The Bureau of Labor Statistics reported over 4,700 fatal work injuries in the United States in 2020, most frequently in transportation-related incidents. The same year, approximately 2.7 million workplace injuries and illnesses were reported by private industry employers. According to the National Safety Council, the cost in lost wages, productivity, medical and administrative costs is close to 1.2 trillion dollars in the US alone. It is imperative—by law and ethics—for engineers and safety and health professionals to drive down these statistics by creating a safe workplace and safe products, as well as maintaining a safe environment. Safety and Health for Engineers is considered the gold standard for engineers in all specialties, teaching an understanding of many components necessary to achieve safe workplaces, products, facilities, and methods to secure safety for workers, users, and the public. Each chapter offers information relevant to help safety professionals and engineers in the achievement of the first canon of professional ethics: to protect the health, safety, and welfare of the public. The textbook examines the fundamentals of safety, legal aspects, hazard recognition and control, the human element, and techniques to manage safety decisions. In doing so, it covers the primary safety essentials necessary for certification examinations for practitioners. Readers of the fourth edition of Safety and Health for Engineers readers will also find: Updates to all chapters, informed by research and references gathered since the last publication The most up-to-date information on current policy, certifications, regulations, agency standards, and the impact of new technologies, such as wearable technology, automation in transportation, and artificial intelligence New international information, including U.S. and foreign standards agencies, professional societies, and other organizations worldwide Expanded sections with real-world applications, exercises, and 164 case studies An extensive list of references to help readers find more detail on chapter contents A solution manual available to qualified instructors Safety and Health for Engineers is an ideal textbook for courses in safety engineering around the world in undergraduate or graduate studies, or in professional development learning. It also is a useful reference for professionals in engineering, safety, health, and associated fields who are preparing for credentialing examinations in safety and health.

FIRST INTERNATIONAL WORKSHOP ON SYSTEMATIC APPROACHES TO DIGITAL FORENSIC ENGINEERING

PROCEEDINGS : 7-9 NOVEMBER 2005, TAIPEI, TAIWAN

IEEE Computer Society Press The SADFE International Workshop is intended to further the advancement of computer forensic engineering by promoting innovative and leading-edge systematic approaches to cyber crime investigation. The workshop brings together top digital forensic researchers, advanced tool/product builders, and expert law enforcement from around the world for information exchange and R&D collaboration. In addition to advanced digital evidence discovery, gathering and correlation, SADFE recognizes the value of solid digital forensic engineering processes based on both technical and legal grounds. SADFE further recognizes the need of advanced forensic-enabled and proactive

monitoring/response technologies. SADFE 2005 addresses broad-based, innovative digital forensic engineering technology, practical experience and process areas.

THE TECHNOLOGICAL PROCESS ON OFFSHORE DRILLING RIGS

Petrogav International This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 309 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job.

100 QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE DRILLING PLATFORMS

Petrogav International This book offers you a brief, but very involved look into the operations in the drilling of an oil & gas wells that will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the drilling process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore drilling platforms. It is intended also for non-drilling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations.

OFFSHORE OIL & GAS PLATFORMS JOB INTERVIEW

Petrogav International The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 279 questions and answers for job interview and as a BONUS web addresses to 273 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

200 TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE OIL & GAS PLATFORMS

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HOW TO BE PREPARED FOR JOB INTERVIEW OFFSHORE OIL & GAS RIGS

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100 TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE OIL & GAS PLATFORMS

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