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Computer Applications for Graphics, Grid Computing, and Industrial Environment International Conferences, GDC, IESH and CGAG 2012, Held as Part of the Future Generation Information Technology Conference, FGIT 2012, Gangneung, Korea, December 16-19, 2012. Proceedings *Springer* This volume constitutes the refereed proceedings of the International Conferences, FGIT 2012, Kangwondo, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of grid and distributed computing, industrial environment, safety and health, and computer graphics, animation and game. **Singing the Body Electric: The Human Voice and Sound Technology** *Routledge* Singing the Body Electric explores the relationship between the human voice and technology, offering startling insights into the ways in which technological mediation affects our understanding of the voice, and more generally, the human body. From the phonograph to magnetic tape and now to digital sampling, Miriama Young visits particular musical and literary works that define a century-and-a-half of recorded sound. She discusses the way in which the human voice is captured, transformed or synthesised through technology. This includes the sampled voice, the mechanical voice, the technologically modified voice, the pliable voice of the digital era, and the phenomenon by which humans mimic the sounding traits of the machine. The book draws from key electro-vocal works spanning a range of genres - from Luciano Berio's *Thema: Omaggio a Joyce* to Radiohead, from Alvin Lucier's *I Am Sitting in a Room*, to Björk, and from Pierre Henry's *Variations on a Door* and a *Sigh* to Christian Marclay's *Maria Callas*. In essence, this book transcends time and musical style to reflect on the way in which the machine transforms our experience of the voice. The chapters are interpolated by conversations with five composers who work creatively with the voice and technology: Trevor Wishart, Katharine Norman, Paul Lansky, Eduardo Miranda and Bora Yoon. This book is an interdisciplinary enterprise that combines music aesthetics and musical analysis with literature and philosophy. **Electronic Imaging & the Visual Arts. EVA 2015 Florence 13-14 May 2015** *Firenze University Press* Sono presentate le tematiche relative alle Tecnologie dell'Informazione per i Beni Culturali: sistemi multimediali, archivi, protezione dei dati, accesso ai contenuti digitali, gallerie virtuali. Particolare rilievo è riservato alle immagini digitali (Electronic Imaging & the Visual Arts), che riguardano le istituzioni culturali (musei, biblioteche, palazzi - monumenti, siti archeologici). La conferenza internazionale è articolata nelle seguenti sessioni: Attività di interesse generale strategico; Nuove Tecnologie e Applicazioni; Nuovi Sviluppi Tecnologici 2D-3D e Applicazioni; Gallerie Virtuali - Musei Digitali e relative Iniziative; Accesso alle Informazioni relative ai Beni Culturali. Due Workshops riguardano: la Collaborazione Internazionale; l'Innovazione e l'Impresa. **Planning and Roadmapping Technological Innovations Cases and Tools** *Springer Science & Business Media* Across industries, firms vary broadly on how they operate with respect to their Research & Development (R&D) activities. This volume presents a holistic approach to evaluating the critical elements of R&D management, including planning, organization, portfolio management, project management, and knowledge transfer—by assessing R&D management from different sectors. Featuring empirical research and in-depth case studies from industries as diverse as medical imaging, electric vehicles, and cyber security, the authors identify common features of successful R&D management, despite fundamental differences, such as company size, number of employees, industry sector, and the R&D budget. In particular, they consider the implications for decision making with respect to resource allocation and investments, such as site selection, purchasing, and cross-departmental communication. **Federal Criminal Practice** *LexisNexis* This new edition of *Federal Criminal Practice* includes new and updated text and case law throughout the book. The highlights include expanded coverage of: Pretrial Release How to raise a constitutional challenge to the residual clause Removal Proceedings New Form: Waiver of Rights (Out of District Cases) (for use in waiver of identity hearings) Grand Jury Proceedings, specifically Custodian of Records issues Custodian's assertion of Fifth Amendment privilege Authentication and admissibility issues How to respond to the government's offer to provide a declaration that the custodian may sign in lieu of testifying Pretrial Discovery Whether district courts can issue sanctions for violation of discovery obligations not specifically imposed by Rule 16 Timing of disclosure of information that is both Jencks and Brady material An individual's expectation of privacy in the record of his physical movements, as captured through cell-site location information Guilty Plea Agreements and Plea Bargaining Substance and practical impact of the Sessions Memo (including a copy of the Memo) Enforceability of a broad swath of waivers commonly contained in standard form plea agreements and whether these waivers violate public policy Scope and enforceability of waivers of appeal - circuit by circuit review Sentencing Appellate court's discretion to vacate a sentence when the lower court miscalculated the Guidelines range Grounds for variation from the Guidelines under 18 U.S.C. §3553(a): In economic crime cases, when a significant enhancement based on monetary loss may overstate the seriousness of the crime; or When defendant faces a mandatory minimum for a separate offense that will require the court to impose a steep sentence Practical impact of the amendment to the commentary to §3E1.1 of the Guidelines, stating that "a defendant who makes a non-frivolous challenge to relevant conduct is not precluded for consideration for a reduction" under acceptance of responsibility. Career Offender Guidelines; the evolving definition of a "crime of violence" under the Armed Career Criminal Act; and how to challenge a "crime of violence" determination, depending on whether the instant offense was committed before or after 8/1/16 Modification or reduction: Conditions allowing for compassionate release **Innovative Technologies and Learning First International Conference, ICITL 2018, Portoroz, Slovenia, August 27-30, 2018, Proceedings** *Springer* This book constitutes the refereed proceedings of the First International Conference on Innovative Technologies and Learning, ICITL 2018, held in Portoroz, Slovenia, in August 2018. The 66 revised full papers presented together with 4 short papers were carefully reviewed and selected from 160 submissions. The papers are organized in the following topical sections: Augmented and Virtual Reality in Education; Collaborative Learning; Design and Framework of Learning Systems; Instructional Strategies; Learning Analytics and Education Data Mining; Mind, Brain and Education; Pedagogies to Innovative Technologies; Personalized and Adaptive Learning; Social Media and Online Learning; Technologies Enhanced Language Learning; Application and Design of Innovative Learning Software; Educational Data Analytics Techniques and Adaptive Learning Applications; and Innovative Thinking Education and Future Trend Development. **Electronic Technology and Civil Procedure New Paths to Justice from Around the World** *Springer Science & Business Media* The effect of modern and communication technology on civil procedure first appeared on the agenda of the conference organized by the International Association of Procedural Law in 1999, verifying Lord Woolf's statement from the 90's, that "IT will not only assist in streamlining and improving our existing systems and process; it is also likely, in due course, itself to be catalyst for radical change as well...". At the conference in Pecs in the autumn of 2010 participants from three continents and twenty-five countries examined all aspects of the impact of modern information technology on civil procedure beginning with the electronic submission of the application, ranging from electronic service of documents and electronic means of proof supported by modern information technology. In addition to the practical issues they discussed the possible impact of electronic procedures on traditional principles of civil procedure. The conference book contains seven main reports and eleven correferates, the foreword was written by Prof. Peter Gottwald, the President of the International Association of Procedural Law. **A Beautiful Question Finding Nature's Deep Design** *Penguin* Does the universe embody beautiful ideas? Artists as well as scientists throughout human history have pondered this "beautiful question." With Nobel laureate Frank Wilczek as your guide, embark on a voyage of related discoveries, from Plato and Pythagoras up to the present. Wilczek's groundbreaking work in quantum physics was inspired by his intuition to look for a deeper order of beauty in nature. In fact, every major advance in his career came from this intuition: to assume that the universe embodies beautiful forms, forms whose hallmarks are symmetry—harmony, balance, proportion—and economy. There are other meanings of "beauty," but this is the deep logic of the universe—and it is no accident that it is also at the heart of what we find aesthetically pleasing and inspiring. Wilczek is hardly alone among great scientists in charting his course using beauty as his compass. As he reveals in *A Beautiful Question*, this has been the heart of scientific pursuit from Pythagoras, the ancient Greek who was the first to argue that "all things are number," to Galileo, Newton, Maxwell, Einstein, and into the deep waters of twentiethcentury physics. Though the ancients weren't right about everything, their ardent belief in the music of the spheres has proved true down to the quantum level. Indeed, Wilczek explores just how intertwined our ideas about beauty and art are with our scientific understanding of the cosmos. Wilczek brings us right to the edge of knowledge today, where the core insights of even the craziest quantum ideas apply principles we all understand. The equations for atoms and light are almost literally the same equations that govern musical instruments and sound; the subatomic particles that are responsible for most of our mass are determined by simple geometric symmetries. The universe itself, suggests Wilczek, seems to want to embody beautiful and elegant forms. Perhaps this force is the pure elegance of numbers, perhaps the work of a higher being, or somewhere between. Either way, we don't depart from the infinite and infinitesimal after all; we're profoundly connected to them, and we connect them. When we find that our sense of beauty is realized in the physical world, we are discovering something about the world, but also something about ourselves. Gorgeously illustrated, *A Beautiful Question* is a mind-shifting book that braids the age-old quest for beauty and the age-old quest for truth into a thrilling synthesis. It is a dazzling and important work from one of our best thinkers, whose humor and infectious sense of wonder animate every page. Yes: The world is a work of art, and its deepest truths are ones we already feel, as if they were somehow written in our souls. **Telemedicine and Electronic Medicine** *CRC Press* The E-Medicine, E-Health, M-Health, Telemedicine, and Telehealth Handbook provides extensive coverage of modern telecommunication in the medical industry, from sensors on and within the body to electronic medical records and beyond. **Telemedicine and Electronic Medicine** is the first volume of this handbook. Featuring chapters written by leading experts and researchers in their respective fields, this volume: Describes the integration of—and interactions between—modern eMedicine, telemedicine, eHealth, and telehealth practices Explains how medical information flows through wireless technologies and networks, emphasizing fast-deploying wireless body area networks Presents the latest developments in sensors, devices, and implantables, from medical sensors for mobile communication devices to drug-delivery systems Illustrates practical telemedicine applications in telecardiology, teleradiology, teledermatology, teleaudiology, teleoncology, acute care telemedicine, and more The E-Medicine, E-Health, M-Health, Telemedicine, and Telehealth Handbook bridges the gap between scientists, engineers, and medical professionals by creating synergy in the related fields of biomedical engineering, information and communication technology, business, and healthcare. The

World Scientific Handbook Of Energy *World Scientific* Competition for energy resources worldwide will almost certainly increase because of population growth and economic expansion, especially in countries such as China and India, with large populations. In addition, environmental concerns with the use of certain energy sources add a complicating factor to decisions about energy use. Therefore there is likely to be an increased commitment around the world to invest in energy systems. The World Scientific Handbook of Energy provides comprehensive, reliable and timely sets of data on energy resources and uses; it gathers in one publication a concise description of the current state-of-the-art for a wide variety of energy resources, including data on resource availability worldwide and at different cost levels. The end use of energy in transportation, residential and industrial areas is outlined, and energy storage, conservation and the impact on the environment included. Experts and key personnel straddling academia and related agencies and industries provide critical data for further exploration and research. Experts in these various areas who provide relevant data for further exploration and research include former Head of the Nuclear Reactors Directorate of the CEA; Director of the Potential Gas Agency, who leads a team of 100 geologists, geophysicists and petroleum engineers; former CEO of an Icelandic engineering company that specializes in the design, construction and operation of "Kalina" binary power plants for geothermal, biomass and industrial waste heat recovery applications; Chairman of the Scottish Hydrogen and Fuel Cells Association; former Director of the Geo-Heat Center at the Oregon Institute of Technology, who received the Patricius Medal from the German Geothermal Association for "his pioneer work in the direct use of geothermal energy"; Division Director of NETL's Strategic Center for Coal, who provides expert guidance and consultation to major DOE-funded clean coal technology and carbon sequestration demonstration projects; an internationally recognized expert in the physics and technology of Inertial Confinement Fusion (ICF); former Senior Scientist and Director of the Center for Distributed Generation and Thermal Distribution with Washington State University, who was responsible for state policy, technical assistance to resource developers and investigations related to geothermal energy development; a main author on the 2005 Billion Ton Report and 2011 Billion Ton Update; and many more extremely well published and well known individuals straddling academia and related agencies and industries. **Handbook of EU Competition Law** *Springer* This handbook offers detailed descriptions of EU competition law, including mergers and public authorities. Above all, it analyzes and discusses recent decisions of the ECJ and the General Court. Presenting systematically structured and theoretically founded content, the book also includes recommendations for practitioners. Special attention is paid to the scope of penalties and the influence on fundamental rights. Rounding out the book, the conflict between safeguarding confidential information and the effectiveness of private and public enforcement is discussed intensively in the context of the new Directive 2014/104/EU. **Computer, Communication and Electrical Technology Proceedings of the International Conference on Advancement of Computer Communication and Electrical Technology (ACCET 2016)**, West Bengal, India, 21-22 October 2016 *CRC Press* The First International Conference on Advancement of Computer, Communication and Electrical Technology focuses on key technologies and recent progress in computer vision, information technology applications, VLSI, signal processing, power electronics & drives, and application of sensors & transducers, etc. Topics in this conference include: Computer Science This conference encompassed relevant topics in computer science such as computer vision & intelligent system, networking theory, and application of information technology. Communication Engineering To enhance the theory & technology of communication engineering, ACCET 2016 highlighted the state-of-the-art research work in the field of VLSI, optical communication, and signal processing of various data formatting. Research work in the field of microwave engineering, cognitive radio and networks are also included. Electrical Technology The state-of-the-art research topic in the field of electrical & instrumentation engineering is included in this conference such as power system stability & protection, non-conventional energy resources, electrical drives, and biomedical engineering. Research work in the area of optimization and application in control, measurement & instrumentation are included as well. **Future Spacecraft Propulsion Systems and Integration Enabling Technologies for Space Exploration** *Springer* The updated and expanded third edition of this book focuses on the multi-disciplinary coupling between flight-vehicle hardware alternatives and enabling propulsion systems. It discusses how to match near-term and far-term aerospace vehicles to missions and provides a comprehensive overview of the subject, directly contributing to the next-generation space infrastructure, from space tourism to space exploration. This holistic treatment defines a mission portfolio addressing near-term to long-term space transportation needs covering sub-orbital, orbital and escape flight profiles. In this context, a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access. A best-practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission. This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike. **Digital Access and E-Government: Perspectives from Developing and Emerging Countries** *IGI Global* Access to government information faces many roadblocks in developing and emerging economies due to lack of appropriate legal frameworks and other requisite information laws. However, there is hope that many countries are now recognizing the importance of providing access to public information resources. **Digital Access and E-Government: Perspectives from Developing and Emerging Countries** explores the relationships that exist between access to information laws and e-government. It shares the strategies used in encouraging access to information in a variety of jurisdictions and environments, to be of use to e-government designers and practitioners, policymakers, and university professors. **Evaluation Management in South Africa and Africa** *AFRICAN SUN MeDIA* This blind peer reviewed book systematically records, analyses and assesses for the first time in a single volume the implications of the global development and management of professional evaluation for the African continent. The book deals with the most strategic contemporary evaluation themes. Each of these themes contains discussions of theoretical issues illustrated with one or more short case studies, while selected longer case studies and other relevant documentation are also taken up in annexures at the end of the book. The book therefore comprises a guide to best M&E practices for purposes of systematic policy, programme and project evaluations. It is suitable for both professional M&E institutionalisation and capacity-building projects as well as for evaluation information dissemination and education at different levels in the public, private and voluntary sectors in society, especially in a developmental context. **Future Intelligent Vehicular Technologies First International Conference, Future 5V 2016**, Porto, Portugal, September 15, 2016, Revised Selected Papers *Springer* This book constitutes the refereed proceedings of the First International Conference on Future Intelligent Vehicular Technologies, Future 5V 2016, held in Porto, Portugal, in September 2016. Future 5V presents vehicular networks and communications and also hosted the "Internet of Things (IoT) meets Big Data and Cloud Computing Workshop". The 21 revised full papers presented were reviewed and selected from 38 submissions. The papers cover all aspects of intelligent vehicular communications including security and applications. **Electronic Commerce A Managerial and Social Networks Perspective** *Springer* Throughout the book, theoretical foundations necessary for understanding Electronic Commerce (EC) are presented, ranging from consumer behavior to the economic theory of competition. Furthermore, this book presents the most current topics relating to EC as described by a diversified team of experts in a variety of fields, including a senior vice president of an e-commerce-related company. The authors provide website resources, numerous exercises, and extensive references to supplement the theoretical presentations. At the end of each chapter, a list of online resources with links to the websites is also provided. Additionally, extensive, vivid examples from large corporations, small businesses from different industries, and services, governments, and nonprofit agencies from all over the world make concepts come alive in Electronic Commerce. These examples, which were collected by both academicians and practitioners, show the reader the capabilities of EC, its cost and justification, and the innovative ways corporations are using EC in their operations. In this edition (previous editions published by Pearson/Prentice Hall), the authors bring forth the latest trends in e-commerce, including social businesses, social networking, social collaboration, innovations, and mobility. **Frontier and Future Development of Information Technology in Medicine and Education ITME 2013** *Springer Science & Business Media* IT changes everyday's life, especially in education and medicine. The goal of ITME 2013 is to further explore the theoretical and practical issues of IT in education and medicine. It also aims to foster new ideas and collaboration between researchers and practitioners. **Smart Energy Grid Design for Island Countries Challenges and Opportunities** *Springer* This book identifies the challenges, solutions, and opportunities offered by smart energy grids (SEGs) with regard to the storage and regulation of diversified energy sources such as photovoltaic, wind, and ocean energy. It provides a detailed analysis of the stability and availability of renewable sources, and assesses relevant socioeconomic structures. The book also presents case studies to maximize readers' understanding of energy grid management and optimization. Moreover, it offers guidelines on the design, implementation, and maintenance of the (SEG) for island countries. **After Newspeak Language Culture and Politics in Russia from Gorbachev to Putin** *Cornell University Press* In *After Newspeak*, Michael S. Gorham presents a cultural history of the politics of Russian language from Gorbachev and glasnost to Putin and the emergence of new generations of Web technologies. Gorham begins from the premise that periods of rapid and radical change both shape and are shaped by language. He documents the role and fate of the Russian language in the collapse of the USSR and the decades of reform and national reconstruction that have followed. Gorham demonstrates the inextricable linkage of language and politics in everything from dictionaries of profanity to the flood of publications on linguistic self-help, the speech patterns of the country's leaders, the blogs of its bureaucrats, and the official programs promoting the use of Russian in the so-called "near abroad." Gorham explains why glasnost figured as such a critical rhetorical battleground in the political strife that led to the Soviet Union's collapse and shows why Russians came to deride the newfound freedom of speech of the 1990s as little more than the right to swear in public. He assesses the impact of Medvedev's role as Blogger-in-Chief and the role Putin's vulgar speech practices played in the restoration of national pride. And he investigates whether Internet communication and new media technologies have helped to consolidate a more vibrant democracy and civil society or if they serve as an additional resource for the political technologies manipulated by the Kremlin. **Energy Storage and Management for Electric Vehicles** *MDPI* This Special Edition of *Energies* on "Energy Storage and Management for Electric Vehicles" draws together a collection of research papers that critically evaluates key areas of innovation and novelty when designing and managing the high-voltage battery system within an electrified powertrain. The addressed topics include design optimisation, mathematical modelling, control engineering, thermal management, and component sizing. **World Class Communication How Great CEOs Win with the Public, Shareholders, Employees, and the Media** *John Wiley & Sons* Proven advice for communicating effectively before the media, customers, employees, and investor relations Many executives focus too narrowly on the financial side of their business and neglect the importance of communicating with their employees, the media, and the public. **World Class Communication** equips you with crisis lessons, procedures, and examples that could help your company save millions of dollars through proper preparation and response. The must-have book every CEO needs, **World Class Communication** is packed with examples of good and bad handling of countless situations and expert instruction on how to manage them without breaking into a sweat. Reveals the keys to successful shareholder communication Tips for winning in the media—every time out Expert tips for developing powerful public speaking techniques Discover how to rally employee support and performance through communication There is a great, and often irrational, fear of the media among CEOs, with too few executives truly knowing how to deliver a message effectively in an interview. **World Class Communication** delivers the necessary tools and techniques you need to communicate your message to your target audience—from shareholder meetings to corporate communications to handling crises. **Clean Coal Engineering Technology** *Butterworth-Heinemann* Clean Coal Engineering Technology, Second Edition provides significant information on the major power generation technologies that aim to utilize coal more efficiently, and with less environmental impact. With increased coal combustion comes heightened concerns about coal's impacts on human health and climate change, so the book addresses the reduction of both carbon footprints and emissions of pollutants, such as particulate matter, nitrogen oxides, and mercury. Part 1 provides an essential grounding in the history of coal use alongside coal chemical and physical characteristics, worldwide distribution, and health and environmental impacts. Part 2 introduces the fundamentals of the major coal utilization technologies and examines the anatomy of a coal-fired power plant before going on to provide an

overview of clean coal technologies for advanced power generation. Next, users will find a group of chapters on emissions and carbon management that have been extensively enlarged and updated for the second edition, thus reflecting the ever-increasing importance of this area. The final section of the book focuses on clean coal technology programs around the world and the future role of coal in the energy mix. This fully revised and selectively expanded new edition is a valuable resource for professionals, including environmental, chemical, and mechanical engineers who seek an authoritative and thorough one-volume overview of the latest advances in cleaner power production from coal. Provides a thorough, yet readable, one-volume guide to advanced power generation technologies for cleaner electricity production from coal Retains the essential background information on coal characteristics and the fundamentals of coal-fired power generation Presents extensively expanded and updated coverage on technologies for the reduction of pollutants, including particulate matter, sulfur oxides, and mercury Emphasizes carbon capture methods, storage, and emerging technologies for the reduction of carbon footprints, alongside a discussion of coal's future in the energy mix Social Media and the Law A Guidebook for Communication Students and Professionals *Taylor & Francis* Social media platforms like Facebook, Twitter, Instagram, YouTube, and Snapchat allow users to connect with one another and share information with the click of a mouse or a tap on a touchscreen—and have become vital tools for professionals in the news and strategic communication fields. But as rapidly as these services have grown in popularity, their legal ramifications aren't widely understood. To what extent do communicators put themselves at risk for defamation and privacy lawsuits when they use these tools, and what rights do communicators have when other users talk about them on social networks? How can an entity maintain control of intellectual property issues—such as posting copyrighted videos and photographs—consistent with the developing law in this area? How and when can journalists and publicists use these tools to do their jobs without endangering their employers or clients? Including two new chapters that examine First Amendment issues and ownership of social media accounts and content, *Social Media and the Law* brings together thirteen media law scholars to address these questions and more, including current issues like copyright, online impersonation, anonymity, cyberbullying, sexting, and live streaming. Students and professional communicators alike need to be aware of laws relating to defamation, privacy, intellectual property, and government regulation—and this guidebook is here to help them navigate the tricky legal terrain of social media.

Microelectronic Circuits: Analysis and Design *Cengage Learning* MICROELECTRONIC CIRCUITS: ANALYSIS AND DESIGN, 3E combines a breadth-first approach to learning electronics with a strong emphasis on design and simulation. This book first introduces the general characteristics of circuits (ICs) in preparation for using circuit design and analysis techniques. This edition then offers a more detailed study of devices and circuits and how they operate within ICs. More than half of the problems and examples concentrate on design and emphasize how to use computer software tools extensively. The book's proven sequence introduces electronic devices and circuits, then electronic circuits and applications, and finally, digital and analog integrated circuits. Readers learn to apply theory to real-world design problems as they master the skills to test and verify their designs. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

INDIAN BANKING Contemporary Issues in Law and Challenges *Allied Publishers* The book has sub parts which are devoted to Banking, Financial Inclusions, Rip-offs in Banking and Legal Analysis, Financial Innovations, Emerging Islamic Banking and Emerging Issues in Banking. The object of this book is to encompass all the essential aspects of banking and finance.

MIMO Power Line Communications Narrow and Broadband Standards, EMC, and Advanced Processing *CRC Press* One of the first publications of its kind in the exciting field of multiple input multiple output (MIMO) power line communications (PLC), *MIMO Power Line Communications: Narrow and Broadband Standards, EMC, and Advanced Processing* contains contributions from experts in industry and academia, making it practical enough to provide a solid understanding of how PLC technologies work, yet scientific enough to form a base for ongoing R&D activities. This book is subdivided into five thematic parts. Part I looks at narrow- and broadband channel characterization based on measurements from around the globe. Taking into account current regulations and electromagnetic compatibility (EMC), part II describes MIMO signal processing strategies and related capacity and throughput estimates. Current narrow- and broadband PLC standards and specifications are described in the various chapters of part III. Advanced PLC processing options are treated in part IV, drawing from a wide variety of research areas such as beamforming/precoding, time reversal, multi-user processing, and relaying. Lastly, part V contains case studies and field trials, where the advanced technologies of tomorrow are put into practice today. Suitable as a reference or a handbook, *MIMO Power Line Communications: Narrow and Broadband Standards, EMC, and Advanced Processing* features self-contained chapters with extensive cross-referencing to allow for a flexible reading path.

150 technical questions and answers for job interview Offshore Drilling 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 150 questions and answers for job interview and as a BONUS 230 links to video movies. 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 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 200 questions and answers for job interview and as a BONUS web addresses to 230 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.

Health Information - E-Book Management of a Strategic Resource *Elsevier Health Sciences* Uncover the latest information you need to know when entering the growing health information management job market with *Health Information: Management of a Strategic Resource*, 5th Edition. Following the AHIMA standards for education for both two-year HIT programs and four-year HIA programs, this new edition boasts dynamic, state-of-the-art coverage of health information management, the deployment of information technology, and the role of the HIM professional in the development of the electronic health record. An easy-to-understand approach and expanded content on data analytics, meaningful use, and public health informatics content, plus a handy companion website, make it even easier for you to learn to manage and use healthcare data. Did You Know? boxes highlight interesting facts to enhance learning. Self-assessment quizzes test your learning and retention, with answers available on the companion Evolve website. Learning features include a chapter outline, key words, common abbreviations, and learning objectives at the beginning of each chapter, and references at the end. Diverse examples of healthcare deliveries, like long-term care, public health, home health care, and ambulatory care, prepare you to work in a variety of settings. Interactive student exercises on Evolve, including a study guide and flash cards that can be used on smart phones. Coverage of health information infrastructure and systems provides the foundational knowledge needed to effectively manage healthcare information. Applied approach to Health Information Management and Health Informatics gives you problem-solving opportunities to develop proficiency. EXPANDED! Data analytics, meaningful use, and public health informatics content prepares HIM professionals for new job responsibilities in order to meet today's, and tomorrow's, workforce needs. EXPANDED! Emphasis on the electronic health care record educates you in methods of data collection, governance, and use. NEW! Chapter on data access and retention provides examples of the paper health record and its transition to the EHR. NEW! Focus on future trends, including specialty certifications offered by the AHIMA, the American Medical Informatics Associations (AMIA), and the Health Information Management Systems Society (HIMSS), explains the vast number of job opportunities and expanded career path awaiting you.

A Textbook of Electrical Technology *S. Chand Publishing* For Mechnaical Engginering Students of Indian Universities. It is also available in 4 Individual Parts **Electrical Measuring Instruments and Measurements** *CRC Press* This book, written for the benefit of engineering students and practicing engineers alike, is the culmination of the author's four decades of experience related to the subject of electrical measurements, comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions. The unique feature of this book, apart from covering the syllabi of various universities, is the style of presentation of all important aspects and features of electrical measurements, with neatly and clearly drawn figures, diagrams and colour and b/w photos that illustrate details of instruments among other things, making the text easy to follow and comprehend. Enhancing the chapters are interspersed explanatory comments and, where necessary, footnotes to help better understanding of the chapter contents. Also, each chapter begins with a "recall" to link the subject matter with the related science or phenomenon and fundamental background. The first few chapters of the book comprise "Units, Dimensions and Standards"; "Electricity, Magnetism and Electromagnetism" and "Network Analysis". These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters. The last two chapters represent valuable assets of the book, and relate to (a) "Magnetic Measurements", describing many unique features not easily available elsewhere, a good study of which is essential for the design and development of most electric equipment - from motors to transformers and alternators, and (b) "Measurement of Non-electrical Quantities", dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices. The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters. Other useful features of the book include an elaborate chapter-by-chapter list of symbols, worked examples, exercises and quiz questions at the end of each chapter, and extensive authors' and subject index. This book will be of interest to all students taking courses in electrical measurements as a part of a B.Tech. in electrical engineering. Professionals in the field of electrical engineering will also find the book of use.

Modular Systems for Energy Usage Management *CRC Press* "...[a] very unique book that integrates benefits of modular systems for enhanced sustainability to meet the global challenges of rapid and sometimes uncontrolled industrialization in the 21st century."—Pinakin Patel, T2M Global This book examines the role of the modular approach for the back end of the energy industry—energy usage management. It outlines the use of modular approaches for the processes used to improve energy conservation and efficiency, which are preludes to the prudent use of energy. Since energy consumption is conventionally broken down into four sectors—residential, transportation, industrial, and commercial—the discussions on energy usage management are also broken down into these four sectors in the book. The book examines the use of modular systems for five application areas that cover the sectors described above: buildings, vehicles, computers and electrical/electronic products, district heating, and wastewater treatment and desalination. This book also discusses the use of a modular approach for energy storage and transportation. Finally, it describes how the modular approach facilitates bottom-up, top-down, and hybrid simulation and modeling of the energy systems from various scientific and socioeconomic perspectives. Aimed at industry professionals and researchers involved in the energy industry, this book illustrates in detail, with the help of concrete industrial examples, how a modular approach can facilitate management of energy usage.

Trade Finance Technology, Innovation and Documentary Credits *Oxford University Press* Trade Finance provides a much-needed re-examination of the relevant legal principles and a study of the challenges posed to current legal structures by technological changes, financial innovation, and international regulation. Arising out of the papers presented at the symposium, *Trade Finance for the 21st Century*, this collection brings together the perspectives of scholars and practitioners from around the globe focusing on core themes, such as reform and the future role of the UCP, the impact of technology on letters of credit and other forms of trade finance, and the rise of alternative forms of financing. The book covers three key fields of trade finance, starting with the challenges to traditional trade financing by means of documentary credit. These include issues related to contractual enforceability, the use of "soft clauses", the doctrine of strict compliance, the fraud exception, the role of the correspondent bank, performance bonds, and conflict of laws problems. The second main area covered by the work is the

technological issues and opportunities in trade finance, including electronic bills of exchange, blockchain, and electronically transferable records. The final part of the work considers alternative and complementary trade finance mechanisms such as open account trading, supply-chain financing, the bank payment obligation, and countertrade. *Electromechanical Control Technology and Transportation Proceedings of the 2nd International Conference on Electromechanical Control Technology and Transportation (ICECTT 2017), January 14-15, 2017, Zhuhai, China* CRC Press The 2017 2nd International Conference on Electromechanical Control Technology and Transportation (ICECTT 2017) was held on January 14-15, 2017 in Zhuhai, China. ICECTT 2017 brought together academics and industrial experts in the field of electromechanical control technology and transportation to a common forum. The primary goal of the conference was to promote research and developmental activities in electromechanical control technology and transportation. Another goal was to promote exchange of scientific information between researchers, developers, engineers, students, and practitioners working all around the world. The conference will be held every year thus making it an ideal platform for people to share views and experiences in electromechanical control technology and transportation and related areas. *EVM Electronic Voting Machines One Point Six Technology Pvt Ltd Electro Technology Newsletter Red Tape Review Commission Findings and Recommendations, February 2012 Smart Grid Planning and Implementation* CRC Press This book is intended for electric utility managers, directors, and power system planners, regulators, and policy makers interested in the steps needed to realize the value of a modern power delivery system. This book describes the elements needed in planning and implementing a "Smart Grid" by outlining how the electricity delivery system can be modernized so it monitors, protects, and automatically optimizes the operation of its interconnected elements—from the central and distributed generator through the high-voltage network and distribution system, to energy storage installations and to end-use consumers and their thermostats, electric vehicles, appliances, and other household devices. This comprehensive guide highlights emerging concepts of cyber and physical security, resiliency, and the newest architecture—"The Integrated Grid." You'll gain an understanding of how a two-way flow of electricity and information can be used to create an automated, widely distributed energy delivery network. *Markets and Policy Measures in the Evolution of Electric Mobility* Springer This edited monograph collects theoretical, empirical and political contributions from different fields, focusing on the commercial launch of electric mobility, and intending to shed more light on the complexity of supply and demand. It is an ongoing discussion, both in the public as well as in academia, whether or not electric mobility is capable of gaining a considerable market share in the near future. The target audience primarily comprises researchers and practitioners in the field, but the book may also be beneficial for graduate students.