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2019 International Conference on Virtual Reality and Visualization (ICVRV) John Wiley & Sons

The present Guide is a detailed technical paper aimed at industrial property office examiners and users in general to assist them in identifying the correct database and using the possible functionalities and tools offered by specific databases. The current Guide examines a selection of commercial and non-commercial database services considered representative of the broader population of existing services in order to illustrate types and combinations of features available through these services.

**Nodal Analysis of Power Systems** John Wiley & Sons

Helps both engineers and students improve their writing skills by learning to analyze target audience, tone, and purpose in order to effectively write technical documents This book introduces students and practicing engineers to all the components of writing in the workplace. It teaches readers how considerations of audience and purpose govern the structure of their documents within particular work settings. The IEEE Guide to Writing in the Engineering and Technical Fields is broken up into two sections: "Writing in Engineering Organizations" and "What Can You Do With Writing?" The first section helps readers approach their writing in a logical and persuasive way as well as analyze their purpose for writing. The second section demonstrates how to distinguish rhetorical situations and the generic forms to inform, train, persuade, and collaborate. The emergence of the global workplace has brought with it an increasingly important role for effective technical communication. Engineers more often need to work in cross-functional teams with people in different disciplines, in different countries, and in different parts of the world. Engineers must know how to communicate in a rapidly evolving global environment, as both practitioners of global English and developers of technical documents. Effective communication is critical in these settings. The IEEE Guide to Writing in the Engineering and Technical Fields Addresses the increasing demand for technical writing courses geared toward engineers Allows readers to perfect their writing skills in order to present knowledge and ideas to clients, government, and general public Covers topics most important to the working engineer, and includes sample documents Includes a companion website that offers engineering documents based on real projects The IEEE Guide to Engineering Communication is a handbook developed specifically for engineers and engineering students. Using an argumentation framework, the handbook presents information about forms of engineering communication in a clear and accessible format. This book introduces both forms that are characteristic of the engineering workplace and principles of logic and rhetoric that underlie these forms. As a result, students and practicing engineers can improve their writing in any situation they encounter, because they can use these principles to analyze audience, purpose, tone, and form.

**Technical Writing** Inst of Elect & Electronic

**Designing Usable Texts** covers the analysis of textual communication processes in the real world of publishing systems and work sites. The book presents topics on designing and understanding of written texts; authoring, editing, and the production process; and training authors of informative documents. The text also describes the policies and processes of editing; lessons in text design from an instructional design perspective; and graphics and design alternatives such as studying strategies and their implications for textbook design. The identification of information requirements such as understanding readers and their uses of texts, modeling users and their use of technical manuals, is also considered. Psychologists and people involved in communication design, document design, information mapping, and educational technology will find the book invaluable.

**International Virtual Teams** John Wiley & Sons

The integration of technology into educational environments has become more prominent over the

years. The combination of technology and face-to-face interaction with instructors allows for a thorough, more valuable educational experience. **Intelligent Web-Based English Instruction in Middle Schools** addresses the concerns associated with the use of computer-based systems in teaching English as a foreign language, proving the effectiveness and efficiency of technological integration in modern classrooms. Highlighting cases based on current practices in four diverse schools, this book is a vital reference source for practitioners and researchers interested in the educational benefits of educational technologies in language acquisition.

**A Math-Based Writing System for Engineers** Springer Nature

An updated edition of the classic guide to technical communication Consider that 20 to 50 percent of a technology professional's time is spent communicating with others. Whether writing a memo, preparing a set of procedures, or making an oral presentation, effective communication is vital to your professional success. This anthology delivers concrete advice from the foremost experts on how to communicate more effectively in the workplace. The revised and expanded second edition of this popular book completely updates the original, providing authoritative guidance on communicating via modern technology in the contemporary work environment. Two new sections on global communication and the Internet address communicating effectively in the context of increased e-mail and web usage. As in the original, David Beer's Second Edition discusses a variety of approaches, such as: \* Writing technical documents that are clear and effective \* Giving oral presentations more confidently \* Using graphics and other visual aids judiciously \* Holding productive meetings \* Becoming an effective listener The new edition also includes updated articles on working with others to get results and on giving directions that work. Each article is aimed specifically at the needs of engineers and others in the technology professions, and is written by a practicing engineer or a technical communicator. Technical engineers, IEEE society members, and technical writing teachers will find this updated edition of David Beer's classic *Writing and Speaking in the Technology Professions* an invaluable guide to successful communication.

**The IEEE Guide to Writing in the Engineering and Technical Fields** Springer Nature

A sweetly illustrated story with a powerful message. 'My Mummy is an Engineer' is the first title by Butterfly Books. This book introduces children to the exciting world of engineering; creating real things that once were dreams. It will not only educate, but also inspire! This story is all about a Mummy's adventure as an engineer, from working with her team in the office to visiting a construction site. It covers various fields of engineering, including electrical, civil and mechanical. **Practical Power Plant Engineering** Purdue University Press Engineering Information Security covers all aspects of information security using a systematic engineering approach and focuses on the viewpoint of how to control access to information. Includes a discussion about protecting storage of private keys, SCADA, Cloud, Sensor, and Ad Hoc networks Covers internal operations security processes of monitors, review exceptions, and plan remediation Over 15 new sections Instructor resources such as lecture slides, assignments, quizzes, and a set of questions organized as a final exam If you are an instructor and adopted this book for your course, please email [ieeeproposals@wiley.com](mailto:ieeeproposals@wiley.com) to get access to the additional instructor materials for this book.

**Designing Usable Texts** John Wiley & Sons

This book presents the generative rules for formal written communication, in an engineering context, through the lens of mathematics. Aimed at engineering students headed for careers in industry and professionals needing a "just in time" writing resource, this pragmatic text covers all that engineers need to become successful workplace writers, and leaves out all pedagogical piffle they do not. Organized into three levels of skill-specific instruction, *A Math-Based Writing System for Engineers: Sentence Algebra & Document Algorithms* guides readers through the process of building accurate, precise sentences to structuring efficient, effective reports. The book's indexed design provides convenient access for both selective and comprehensive readers, and is ideal for university students; professionals seeking a thorough, "left-brained" treatment of English grammar and "go to" document structures; and ESL engineers at all levels.

**IEEE Computer Society Real-World Software Engineering Problems** Inst of Elect & Electronic

Based on 55 semi-structured in-depth interviews, this book investigates 15 high-tech engineering co-op professionals' writing experience in the workplace. It shows how the digital age has had a marked impact on the engineers' methods of communication at work, and how on-the-job writing has affected engineers' technical competence, shaped their professional identities, challenged their views on Chinese and English writing, and hindered their success in the workplace. The book identifies three aspects of writing practice: engineers' linguistic and literacy challenges, the

reasons behind these challenges, and coping strategies, which suggest that engineers are underprepared and lack necessary support in the workplace. Lastly, the study shows that engineers need to engage in technical literacy through on-the-job writing so that they can fully deal with workplace discourse and socialize with diverse professional groups. Since the sample group interviewed in this book is engineers who studied at universities in the United States and have a foot in the world of school and work as well as knowledge of both Eastern and Western cultures, the book appeals to teachers, students, engineers and scientists who are interested in scientific and technological writing. It is also valuable for educators who prepare scientists, engineers, and technical communicators for professional roles, as well as for communication practitioners who work with engineers. /div

**Communication Practices in Engineering, Manufacturing, and Research for Food and Water Safety** John Wiley & Sons

Engineers and scientists of all types are often required to write reports, summaries, manuals, guides, and so forth. While these individuals certainly have had some sort of English or writing course, it is less likely that they have had any instruction in the special requirements of technical writing. Filling this void, *Technical Writing: A Practical Guide for Engineers and Scientists* enables readers to write, edit, and publish materials of a technical nature, including books, articles, reports, and electronic media. Written by a renowned engineer and widely published technical author, this guide complements the traditional writer's reference manuals and other books on technical writing. It helps readers understand the practical considerations in writing technical content. Drawing on his own work, the author presents many first-hand examples of writing, editing, and publishing technical materials. These examples illustrate how a publication originated as well as various challenges and solutions.

**Teaching and Training for Global Engineering** John Wiley & Sons

*Practical Power Plant Engineering* offers engineers, new to the profession, a guide to the methods of practical design, equipment selection and operation of power and heavy industrial plants as practiced by experienced engineers. The author—a noted expert on the topic—draws on decades of practical experience working in a number of industries with ever-changing technologies. This comprehensive book, written in 26 chapters, covers the electrical activities from plant design, development to commissioning. It is filled with descriptive examples, brief equipment data sheets, relay protection, engineering calculations, illustrations, and common-sense engineering approaches. The book explores the most relevant topics and reviews the industry standards and established engineering practices. For example, the author leads the reader through the application of MV switchgear, MV controllers, MCCs and distribution lines in building plant power distribution systems, including calculations of interrupting duty for breakers and contactors. The text also contains useful information on the various types of concentrated and photovoltaic solar plants as well as wind farms with DFIG turbines. This important book: • Explains why and how to select the proper ratings for electrical equipment for specific applications • Includes information on the critical requirements for designing power systems to meet the performance requirements • Presents tests of the electrical equipment that prove it is built to the required standards and will meet plant-specific operating requirements Written for both professional engineers early in their career and experienced engineers, *Practical Power Plant Engineering* is a must-have resource that offers the information needed to apply the concepts of power plant engineering in the real world.

**My Mummy is an Engineer** John Wiley & Sons

In the Guide to the Software Engineering Body of Knowledge (SWEBOK(R) Guide), the IEEE Computer Society establishes a baseline for the body of knowledge for the field of software engineering, and the work supports the Society's responsibility to promote the advancement of both theory and practice in this field. It should be noted that the Guide does not purport to define the body of knowledge but rather to serve as a compendium and guide to the knowledge that has been developing and evolving over the past four decades. Now in Version 3.0, the Guide's 15 knowledge areas summarize generally accepted topics and list references for detailed information. The editors for Version 3.0 of the SWEBOK(R) Guide are Pierre Bourque (Ecole de technologie superieure (ETS), Universite du Quebec) and Richard E. (Dick) Fairley (Software and Systems Engineering Associates (S2EA)). **Technical Writing** WIPO

Spoken language understanding (SLU) is an emerging field in between speech and language processing, investigating human/ machine and human/ human communication by leveraging technologies from signal processing, pattern recognition, machine learning and artificial intelligence. SLU systems are designed to extract the meaning from speech utterances and its applications are vast, from voice

search in mobile devices to meeting summarization, attracting interest from both commercial and academic sectors. Both human/machine and human/human communications can benefit from the application of SLU, using differing tasks and approaches to better understand and utilize such communications. This book covers the state-of-the-art approaches for the most popular SLU tasks with chapters written by well-known researchers in the respective fields. Key features include: Presents a fully integrated view of the two distinct disciplines of speech processing and language processing for SLU tasks. Defines what is possible today for SLU as an enabling technology for enterprise (e.g., customer care centers or company meetings), and consumer (e.g., entertainment, mobile, car, robot, or smart environments) applications and outlines the key research areas. Provides a unique source of distilled information on methods for computer modeling of semantic information in human/machine and human/human conversations. This book can be successfully used for graduate courses in electronics engineering, computer science or computational linguistics. Moreover, technologists interested in processing spoken communications will find it a useful source of collated information of the topic drawn from the two distinct disciplines of speech processing and language processing under the new area of SLU.

**Guide to the Software Engineering Body of Knowledge (Swebok(r))** IGI Global

This proceedings brings together 59 selected articles presented at the joint conferences of the International Conference on Management, Information and Communication (ICMIC2016) and the International Conference on Optics and Electronics Engineering (ICOEE2016), which were held in Guilin, China, during May 28–29, 2016. ICMIC2016 and ICOEE2016 provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their latest findings and results in the development in Information Management, Communication, Optics and Electronics host by ICMIC2016 and ICOEE2016. The proceedings collected the latest research results and applications in the related areas. We hope to enlighten readers with some latest developments in Information Management, and Optics Electronics presented at the joint conferences.

*A Guide to Writing as an Engineer* Farrar, Straus and Giroux

Series of books on a CD on professional development in non-technical skills for business-minded engineers.

**IEEE Standards** CRC Press

This book demonstrates some of the ways in which communication and developing technologies can improve global food and water safety by providing a historical background on outbreaks and public resistance, as well as generating interest in youth and potential professionals in the field History of muckraking in the food industry Case study on groundwater regulation Interviews with members of the beef industry and livestock market owners

**Guide to Technology Databases** John Wiley & Sons

Technical Writing: A Practical Guide for Engineers, Scientists, and Nontechnical Professionals, Second Edition enables readers to write, edit, and publish materials of a technical nature, including books, articles, reports, and electronic media. Written by a renowned engineer and widely published technical author, this guide complements traditional writer's reference manuals on technical writing through presentation of first-hand examples that help readers understand practical considerations in writing and producing technical content. These examples illustrate how a publication originates as well as various challenges and solutions. The second edition contains new material in every chapter including new topics, additional examples, insights, tips and tricks, new vignettes and more exercises. Appendices have been added for writing checklists and writing samples. The references and glossary have been updated and expanded. In addition, a focus on writing for the nontechnical persons working in the technology world and the nonnative English speaker has been incorporated. Written in an informal, conversational style, unlike traditional college writing texts, the book also contains many interesting vignettes and personal stories to add interest to otherwise stodgy lessons.

*Proceedings of 2015 IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE)* John Wiley & Sons

Focusing on basic skills and tips for career enhancement, *Engineer Your Own Success* is a guide to improving efficiency and performance in any engineering field. It imparts valuable organization tips, communication advice, networking tactics, and practical assistance for preparing for the PE exam—every necessary skill for success. Authored by a highly renowned career coach, this book is a battle plan for climbing the rungs of any engineering ladder.

*Engineers Guides to Business* John Wiley & Sons

This book is aimed at engineering academics worldwide, who are attempting to bring social

justice into their work and practice, or who would like to but don't know where to start. This is the first book dedicated specifically to University professionals on Engineering and Social Justice, an emerging and exciting area of research and practice. An international team of multidisciplinary authors share their insights and invite and inspire us to reformulate the way we work. Each chapter is based on research and yet presents the outcomes of scholarly studies in a user oriented style. We look at all three areas of an engineering academic's professional role: research, teaching and community engagement. Some of our team have created classes which help students think through their role as engineering practitioners in society. Others are focusing their research on outcomes that are socially just and for client groups who are marginalized and powerless. Yet others are consciously engaging local community groups and exploring ways in which the University might 'serve' communities at home and globally from a post-development perspective. We are additionally concerned with the student cohort and who has access to engineering studies. We take a broad social and ecological justice perspective to critique existing and explore alternative practices. This book is a handbook for any engineering academic, who wishes to develop engineering graduates as well as technologies and practices that are non-oppressive, equitable and engaged. It is also an essential reader for anyone studying in this interdisciplinary juncture of social science and engineering. Scholars using a critical theoretical lens on engineering practice and education, from Science and Technology Studies, History and Philosophy of Engineering, Engineering and Science Education will find this text invaluable.

**Intelligent Web-Based English Instruction in Middle Schools** John Wiley & Sons

Shows how the engineering curriculum can be a site for rendering social justice visible in engineering, for exploring complex socio-technical interplays inherent in engineering practice, and for enhancing teaching and learning Using social justice as a catalyst for curricular transformation, *Engineering Justice* presents an examination of how politics, culture, and other social issues are inherent in the practice of engineering. It aims to align engineering curricula with socially just outcomes, increase enrollment among underrepresented groups, and lessen lingering gender, class, and ethnicity gaps by showing how the power of engineering knowledge can be explicitly harnessed to serve the underserved and address social inequalities.

This book is meant to transform the way educators think about engineering curricula through creating or transforming existing courses to attract, retain, and motivate engineering students to become professionals who enact engineering for social justice. *Engineering Justice* offers thought-provoking chapters on: why social justice is inherent yet often invisible in engineering education and practice; engineering design for social justice; social justice in the engineering sciences; social justice in humanities and social science courses for engineers; and transforming engineering education and practice. In addition, this book: Provides a transformative framework for engineering educators in service learning, professional communication, humanitarian engineering, community service, social entrepreneurship, and social responsibility Includes strategies that engineers on the job can use to advocate for social justice issues and explain their importance to employers, clients, and supervisors Discusses diversity in engineering educational contexts and how it affects the way students learn and develop *Engineering Justice* is an important book for today's professors, administrators, and curriculum specialists who seek to produce the best engineers of today and tomorrow.