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KEY=VIBRATION - OSBORN NICHOLSON

VALUE ENGINEERING APPLICATIONS IN TRANSPORTATION

A SYNTHESIS OF HIGHWAY PRACTICE

Transportation Research Board

SYNTHESIS OF HIGHWAY PRACTICE

EXPLORING SECURITY IN SOFTWARE ARCHITECTURE AND DESIGN

IGI Global Cyber-attacks continue to rise as more individuals rely on storing personal information on networks. Even though these networks are continuously checked and secured, cybercriminals find new strategies to break through these protections. Thus, advanced security systems, rather than simple security patches, need to be designed and developed. Exploring Security in Software Architecture and Design is an essential reference source that discusses the development of security-aware software systems that are built into every phase of the software architecture. Featuring research on topics such as migration techniques, service-based software, and building security, this book is ideally designed for computer and software engineers, ICT specialists, researchers, academicians, and field experts.

IMPROVED WORK ZONE DESIGN GUIDELINES AND ENHANCED MODEL OF TRAVEL DELAYS IN WORK ZONES

PORTABILITY AND SCALABILITY OF INTERARRIVAL AND SERVICE TIME PROBABILITY DISTRIBUTION FUNCTIONS FOR DIFFERENT LOCATIONS IN OHIO AND THE ESTABLISHMENT OF IMPROVED WORK ZONE DESIGN GUIDELINES. PHASE I

Problem: Work zones on heavily traveled divided highways present problems to motorists in the form of traffic delays and increased accident risks due to sometimes reduced motorist guidance, dense traffic, and other driving difficulties. To minimize the delays encountered in traveling through a work zone, there are two areas in which we can look for improvement. First the modeling of traffic through the work zone and designing the work zone in such a way that we keep traffic delays within acceptable limits and second, providing optimal guidance for drivers through the work zone.

INFORMATION ASSURANCE AND SECURITY ETHICS IN COMPLEX SYSTEMS: INTERDISCIPLINARY PERSPECTIVES

INTERDISCIPLINARY PERSPECTIVES

IGI Global Information Assurance and Security Ethics in Complex Systems: Interdisciplinary Perspectives offers insight into social and ethical challenges presented by modern technology. Aimed at students and practitioners in the rapidly growing field of information assurance and security, this book address issues of privacy, access, safety, liability and reliability in a manner that asks readers to think about how the social context is shaping technology and how technology is shaping social context and, in so doing, to rethink conceptual boundaries.

OH'S INTENSIVE CARE MANUAL

Elsevier Health Sciences The sixth edition provides practical, concise information on all aspects of intensive care. Written in a clear and accessible style and now for the first time presented in colour throughout, this book enables the user to manage a patient in an ICU setting effectively without recourse to large text/reference works or specialized monographs. This thoroughly revised and updated edition reflects the best and most current practice from leading centres in Australia, the UK and Western Europe. Information on management and treatment of conditions is balanced by pathophysiological and pharmacological background. This is not just a "cook book" of procedures. It provides all of the essential information for candidates wishing to pass professional examinations. Addition of colour throughout to highlight summary boxes, tables, charts and flow diagrams. Will make key information more accessible, easier and faster to retrieve. Pitfalls in treatment and management emphasized in each chapter. Provides the user with expert advice on practical issues that will be encountered on a day-to-day basis in the ICU. Keeps the user abreast of the latest developments in diagnosis and management.

ASSURANCE OF STERILITY FOR SENSITIVE COMBINATION PRODUCTS AND MATERIALS

NEW PARADIGMS FOR THE NEXT GENERATION OF MEDICAL DEVICES AND PHARMACEUTICALS

Academic Press Assurance of Sterility for Sensitive Combination Products and Materials: New Paradigms for the Next Generation of Medical Devices and Pharmaceuticals discusses the medical device industry and existing challenges regarding the exciting new world of sensitive combination products (SCPs) and their terminal sterilization. This book reassesses the current assumptions to assure the patient's best interests are met in the development of increasingly rigorous sterilization methods used to counteract MRSA and other 'super-bugs'. In addition, the book discusses the special challenges faced with implantable medical devices, sterilization requirements and further methods needed for material selection and the design process. This book is unique in taking a holistic, end-to-end approach to sterilization, with a particular focus on materials selection and product design. Introduces sterilization principles at the material selection and design stages Addresses the industry need for new sterilization processes for new medical devices and biomaterials Provides guidance to select the appropriate sterilization technique for newly developed sensitive combination products Examines forward thinking tactics for matching new developments in material compatibility with possible regulatory and QSR strategies

ENGINEERING STANDARDS FOR FORENSIC APPLICATION

Academic Press Engineering Standards for Forensic Application presents the technologies and law precedents for the application of engineering standards to forensic opinions, discussing Fundamentals, Disciplines, Engineering Standards, The Basics and the Future of Forensics. The book explores the engineering standard and how it is used by experts to give opinions that are introduced into evidence, and how they are assumed to be the best evidence known on the topic at hand. Final sections include coverage of NFL Brain Injuries and the Flint Water Crisis. Examples of the use of engineering standards are shown and discussed throughout the work. Addresses a wide variety of forensic engineering areas, including relevant law Provides a new approach of study that includes the work of both engineers and litigators Contains contributions from over 40 experts, offering the reader examples of general forensic methods that are based on reliable engineering practice

QUALITY ASSURANCE AND ACCREDITATION IN FOREIGN LANGUAGE EDUCATION

GLOBAL ISSUES, MODELS, AND BEST PRACTICES FROM THE MIDDLE EAST AND TURKEY

Springer Greater student mobility, increasing demand for access to tertiary education, as well as policy changes have spurred rapid expansion of the global higher education sector. However, with increased demand comes considerable variation in the quality of the supply. As higher education is an expensive endeavor for all stakeholders - governments, funders, employers, and families - there are also increasing expectations for accountability and demonstrations of quality. English as a foreign language (EFL) programs, in particular, are under considerable pressure to substantiate their value, resulting in a significant rise in interest around their quality. This volume is the outcome of a May 2018 international conference on quality and specialized accreditation, held in Turkey. The book's three sections take the reader from the global to the program level, examining trends and best practices in quality assurance and accreditation in EFL programs. The book's geographic focus is primarily the Middle East and Turkey, yet the issues discussed herein a quite global in nature. This volume will be of interest to educational administrators at the institutional or program level, educational leadership programs focusing on higher education, language teacher preparation programs, and administrators in centralized education systems or accrediting organizations.

BIOLOGY OF WASTEWATER TREATMENT

World Scientific This comprehensive text provides the reader with both a detailed reference and a unified course on wastewater treatment. Aimed at scientists and engineers, it deals with the

environmental and biological aspects of wastewater treatment and sludge disposal. The book starts by examining the nature of wastewaters and how they are oxidized in the natural environment. An introductory chapter deals with wastewater treatment systems and examines how natural principles have been harnessed by man to treat his own waste in specialist reactors. The role of organisms is considered by looking at kinetics, metabolism and the different types of micro-organisms involved. All the major biological process groups are examined in detail, in highly referenced chapters; they include fixed film reactors, activated sludge, stabilization ponds, anaerobic systems and vegetative processes. Sludge treatment and disposal is examined with particular reference to the environmental problems associated with the various disposal routes. A comprehensive chapter on public health looks at the important waterborne organisms associated with disease, as well as removal processes within treatment systems. Biotechnology has had an enormous impact on wastewater treatment at every level, and this is explored in terms of resource reuse, biological conversion processes and environmental protection. Finally, there is a short concluding chapter that looks at the sustainability of waste water treatment. The text is fully illustrated and supported by over 3000 references. Contents: How Nature Deals with Waste How Man Deals with Waste The Role of Organisms Fixed-Film Reactors Activated Sludge Natural Treatment Systems Anaerobic Unit Processes Sludge Treatment and Disposal Public Health Biotechnology and Wastewater Treatment Readership: Graduate students in wastewater technology. Reviews: "Anyone interested in the biology of wastewater treatment will find this book useful." *Biotechnology Advances* "... is both well written and informative and it should appeal to anyone with an interest in wastewater treatment. It covers the ground in sufficient depth to stay useful throughout one's entire career, serving as an essential reference, allowing one to dive in and out at will as one's needs dictate ... manages to fulfil what I believe to be its aim of bridging the gap between wastewater engineering and its underlying biology." *Journal of the Chartered Institution of Water and Environmental Management*

DESIGNING VIRTUAL WORLDS

New Riders A comprehensive resource on the principles and techniques of virtual world design and programming covers everything from MUDS to MMOs and MMORPGs, explaining how virtual worlds work, creating games for multiple users, and the underlying design principles of online games. Original. (Advanced)

EFFECTIVE MODEL-BASED SYSTEMS ENGINEERING

Springer This textbook presents a proven, mature Model-Based Systems Engineering (MBSE) methodology that has delivered success in a wide range of system and enterprise programs. The authors introduce MBSE as the state of the practice in the vital Systems Engineering discipline that manages complexity and integrates technologies and design approaches to achieve effective, affordable, and balanced system solutions to the needs of a customer organization and its personnel. The book begins with a summary of the background and nature of MBSE. It summarizes the theory behind Object-Oriented Design applied to complex system architectures. It then walks through the phases of the MBSE methodology, using system examples to illustrate key points. Subsequent chapters broaden the application of MBSE in Service-Oriented Architectures (SOA), real-time systems, cybersecurity, networked enterprises, system simulations, and prototyping. The vital subject of system and architecture governance completes the discussion. The book features exercises at the end of each chapter intended to help readers/students focus on key points, as well as extensive appendices that furnish additional detail in particular areas. The self-contained text is ideal for students in a range of courses in systems architecture and MBSE as well as for practitioners seeking a highly practical presentation of MBSE principles and techniques.

QUALITY CONTROL, RELIABILITY, AND ENGINEERING DESIGN

CRC Press For the first time in a single volume, quality control, reliability, and design engineers have a comprehensive overview of how each of their disciplines interact to achieve optimum product and/or project success. Thoroughly covering every stage of each phase, this outstanding reference provides detailed discussions of techniques and methods, ensuring cost-effective and time-saving procedures ... contains over 80 solved problems -- as well as numerous end-of-chapter exercises -- for reinforcement of essential material ... presents a complete, relevant mathematics chapter that eliminates the need to refer to other math texts ... offers self-contained chapters with introductions, summaries, and extensive references for quick, easy reading and additional study. *Quality Control, Reliability, and Engineering Design* is a key, on-the-job source for quality control, reliability, and design engineers and managers; system engineers and managers; and mechanical, electrical and electronic, industrial, and project engineers and managers. The book also serves as an ideal reference for professional seminars and in-house training programs, as well as for upper-level undergraduate and graduate courses in *Quality Control, Reliability, Quality Control and Reliability, and Quality Control of Engineering Design*. Book jacket.

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

MACHINE DESIGN

PRACTICE-BASED DESIGN RESEARCH

Bloomsbury Publishing Practice-Based Design Research provides a companion to masters and PhD programs in design research through practice. The contributors address a range of models and approaches to practice-based research, consider relationships between industry and academia, researchers and designers, discuss initiatives to support students and faculty during the research process, and explore how students' experiences of undertaking practice-based research has impacted their future design and research practice. The text is illustrated throughout with case study examples by authors who have set up, taught or undertaken practice-based design research, in a range of national and institutional contexts.

ZUVERLÄSSIGE BAUELEMENTE FÜR ELEKTRONISCHE SYSTEME

FEHLERPHYSIK, AUSFALLMECHANISMEN, PRÜFFELDPRAXIS, QUALITÄTSÜBERWACHUNG

Springer-Verlag Speicher, Mikroprozessoren, Opto-, MEMS- und NEMS-Bauteile zusammen mit den passiven Komponenten sind das Hauptthema des Buches. Praktische Methoden zur Untersuchung der Zuverlässigkeit sind ergänzt durch umfangreiche Tabellen und veranschaulicht durch zahlreiche Diagramme. Damit erhält der Leser präzise, praxisnah und umfassend sämtliche Zuverlässigkeitsaspekte einfacher und komplexer elektronischer Bauelemente - von der Fehlerphysik über die Prüffeldpraxis und Ausfallmechanismen bis zur Qualitätsüberwachung.

STANDARDS FOR INTERNAL CONTROL IN THE FEDERAL GOVERNMENT

Government Printing Office This key resource is often referred to as the "Green Book". Federal policymakers and program managers are continually seeking ways to better achieve agencies' missions and program results, in other words, they are seeking ways to improve accountability. A key factor in helping achieve such outcomes and minimize operational problems is to implement appropriate internal control. Effective internal control also helps in managing change to cope with shifting environments and evolving demands and priorities. As programs change and as agencies strive to improve operational processes and implement new technological developments, management must continually assess and evaluate its internal control to assure that the control activities being used are effective and updated when necessary. The Federal Managers' Financial Integrity Act of 1982 (FMFIA) requires the General Accounting Office (GAO) to issue standards for internal control in government. The standards provide the overall framework for establishing and maintaining internal control and for identifying and addressing major performance and management challenges, and areas at greatest risk of fraud, waste, abuse and mismanagement. This report explores the Five Standards for Internal Control as identified by GAO for policymakers and program managers: - Control Environment - Risk Assessment - Control Activities - Information and Communications - Monitoring These standards apply to all aspects of an agency's operations: programmatic, financial, and compliance. However, they are not intended to limit or interfere with duly granted authority related to developing legislation, rule-making, or other discretionary policy-making in an agency. These standards provide a general framework. In implementing these standards, management is responsible for developing the detailed policies, procedures, and practices to fit their agency's operations and to ensure that they are built into and an integral part of operations. Other related products: Government Auditing Standards: 2011 Revision (Yellow Book) --print format can be found here: <https://bookstore.gpo.gov/products/sku/020-000-00291-3> --ePub format can be found here: <https://bookstore.gpo.gov/products/sku/999-000-44443-1> Reducing the Deficit: Spending and Revenue Options can be found here: <https://bookstore.gpo.gov/products/sku/052-070-07612-7> The Budget and Economic Outlook: 2016 to 2026 can be found here: <https://bookstore.gpo.gov/products/sku/052-070-07697-6>

ASSURANCE TECHNOLOGIES PRINCIPLES AND PRACTICES

A PRODUCT, PROCESS, AND SYSTEM SAFETY PERSPECTIVE

Wiley-Interscience "Assurance Technologies Principles and Practices is based on the assertion that safety is not a cost, but an excellent investment. According to the authors, more than sixty percent of problems in complex systems arise from incomplete, vague, and poorly written specifications. In keeping with the authors' passion for safety, the text is dedicated to uniting the gamut of disciplines that are essential for effective design applying assurance technology principles, including system safety, reliability, maintainability, human engineering, quality, logistics, software integrity, and system integration. Readers familiar with the first edition of this text will recognize all the hallmarks that have made it a classic in its field. The Second Edition features a host of new examples, methods, techniques, and best practices to bring the text fully up to date with the state of the art in assurance technology."--Publisher's website.

ASSURING QUALITY IN ONLINE EDUCATION

PRACTICES AND PROCESSES AT THE TEACHING, RESOURCE, AND PROGRAM LEVELS

*Stylus Publishing, LLC Online distance education continues to grow at a fast pace, even outpacing the overall growth of U.S. higher education. Demands for quality are coming from all shareholders involved. As if caught by surprise, a patchwork response to quality is often the typical organizational response. The result can be inconsistent and uncoordinated levels of value to those invested in online learning. This often promotes negative images of the educational experience and institution. Comprised of highly regarded experts in the field, this edited volume provides a comprehensive overview of quality assurance, a snapshot of current practices and proven recommendations for raising standards of quality in online education. Topics discussed include: * Improving practices for teaching online * Using educational analytics for quality assurance and improvement * Accessibility: An important dimension of quality assurance * Assuring quality in online course design * Assuring quality in learner support, academic resources, advising and counseling * The role and realities of accreditation This text clearly answers the call for addressing quality from a broad, deep and coordinated understanding. It addresses the complexities of quality assurance in higher education and offers professionals top-shelf advice and support. *This text is also appropriate for students enrolled in Educational Technology and Higher Education Administration Masters and PhD programs*

MEASUREMENT AND CALIBRATION FOR QUALITY ASSURANCE

OPTIMIZING INFORMATION SECURITY AND ADVANCING PRIVACY ASSURANCE: NEW TECHNOLOGIES

NEW TECHNOLOGIES

IGI Global "This book reviews issues and trends in security and privacy at an individual user level, as well as within global enterprises, covering enforcement of existing security technologies, factors driving their use, and goals for ensuring the continued security of information systems"--Provided by publisher.

OUTCOME-BASED SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS EDUCATION: INNOVATIVE PRACTICES

INNOVATIVE PRACTICES

IGI Global "This book provides insights into initiatives that enhance student learning and contribute to improving the quality of undergraduate STEM education"--Provided by publisher.

SOFTWARE ENGINEERING WITH COMPUTATIONAL INTELLIGENCE

Springer Science & Business Media The constantly evolving technological infrastructure of the modern world presents a great challenge of developing software systems with increasing size, complexity, and functionality. The software engineering field has seen changes and innovations to meet these and other continuously growing challenges by developing and implementing useful software engineering methodologies. Among the more recent advances are those made in the context of software portability, formal verification techniques, software measurement, and software reuse. However, despite the introduction of some important and useful paradigms in the software engineering discipline, their technological transfer on a larger scale has been extremely gradual and limited. For example, many software development organizations may not have a well-defined software assurance team, which can be considered as a key ingredient in the development of a high-quality and dependable software product. Recently, the software engineering field has observed an increased integration or fusion with the computational intelligence (CI) field, which is comprised of primarily the mature technologies of fuzzy logic, neural networks, genetic algorithms, genetic programming, and rough sets. Hybrid systems that combine two or more of these individual technologies are also categorized under the CI umbrella. Software engineering is unlike the other well-founded engineering disciplines, primarily due to its human component (designers, developers, testers, etc.) factor. The highly non-mechanical and intuitive nature of the human factor characterizes many of the problems associated with software engineering, including those observed in development effort estimation, software quality and reliability prediction, software design, and software testing.

11TH INTERNATIONAL CONFERENCE ON CYBER WARFARE AND SECURITY

ICCWS2016

Academic Conferences and publishing limited The 11th International Conference on Cyber Warfare and Security (ICCWS 2016) is being held at Boston University, Boston, USA on the 17-18th March 2016. The Conference Chair is Dr Tanya Zlateva and the Programme Chair is Professor Virginia Greiman, both from Boston University. ICCWS is a recognised Cyber Security event on the International research

conferences calendar and provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual and empirical advances in the area of Cyber Warfare and Cyber Security. It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of Cyberwar and Cyber Security research available to them. The keynote speakers for the conference are Daryl Haegley from the Department of Defense (DoD), who will address the topic Control Systems Networks...What's in Your Building? and Neal Ziring from the National Security Agency who will be providing some insight to the issue of Is Security Achievable? A Practical Perspective. ICCWS received 125 abstract submissions this year. After the double blind, peer review process there are 43 Academic Research Papers 8 PhD papers Research papers, 7 Masters and 1 work-in-progress papers published in these Conference Proceedings. These papers represent work from around the world, including: Australia, Canada, China, Czech Republic, District of Columbia, Finland, France, Israel, Japan, Lebanon, Netherlands, Pakistan, Russian Federation, Saudi Arabia, South Africa, Turkey, United Arab Emirates, UK, USA.

HOW TO ENGINEER SOFTWARE

A MODEL-BASED APPROACH

John Wiley & Sons A guide to the application of the theory and practice of computing to develop and maintain software that economically solves real-world problem How to Engineer Software is a practical, how-to guide that explores the concepts and techniques of model-based software engineering using the Unified Modeling Language. The author—a noted expert on the topic—demonstrates how software can be developed and maintained under a true engineering discipline. He describes the relevant software engineering practices that are grounded in Computer Science and Discrete Mathematics. Model-based software engineering uses semantic modeling to reveal as many precise requirements as possible. This approach separates business complexities from technology complexities, and gives developers the most freedom in finding optimal designs and code. The book promotes development scalability through domain partitioning and subdomain partitioning. It also explores software documentation that specifically and intentionally adds value for development and maintenance. This important book: Contains many illustrative examples of model-based software engineering, from semantic model all the way to executable code Explains how to derive verification (acceptance) test cases from a semantic model Describes project estimation, along with alternative software development and maintenance processes Shows how to develop and maintain cost-effective software that solves real-world problems Written for graduate and undergraduate students in software engineering and professionals in the field, How to Engineer Software offers an introduction to applying the theory of computing with practice and judgment in order to economically develop and maintain software.

QUALITY ASSURANCE IN HEALTHCARE SERVICE DELIVERY, NURSING AND PERSONALIZED MEDICINE: TECHNOLOGIES AND PROCESSES

TECHNOLOGIES AND PROCESSES

IGI Global Quality of life is difficult to define and even more difficult to measure; as such, outcomes from nursing in continuing care are not easily articulated. Quality Assurance in Healthcare Service Delivery, Nursing and Personalized Medicine: Technologies and Processes offers a framework for measuring quality of service in the healthcare industry as it pertains to nursing, with insight into how new technologies and the design of personalized medicine have improved quality of care and quality of life. Assessment and feedback are a vital part of developing and designing personalized medicine, and this book details case studies and the latest research in the field of healthcare service delivery assessment. In addition to describing assessment methodology, the book is also a compendium of the latest research into new medical technologies.

TRANSFORMING THE FINANCING OF EARLY CARE AND EDUCATION

National Academies Press High-quality early care and education for children from birth to kindergarten entry is critical to positive child development and has the potential to generate economic returns, which benefit not only children and their families but society at large. Despite the great promise of early care and education, it has been financed in such a way that high-quality early care and education have only been available to a fraction of the families needing and desiring it and does little to further develop the early-care-and-education (ECE) workforce. It is neither sustainable nor adequate to provide the quality of care and learning that children and families need—a shortfall that further perpetuates and drives inequality. Transforming the Financing of Early Care and Education outlines a framework for a funding strategy that will provide reliable, accessible high-quality early care and education for young children from birth to kindergarten entry, including a highly qualified and adequately compensated workforce that is consistent with the vision outlined in the 2015 report, Transforming the Workforce for Children Birth Through Age 8: A Unifying Foundation. The recommendations of this report are based on essential features of child development and early learning, and on principles for high-quality professional practice at the levels of individual practitioners, practice environments, leadership, systems, policies, and resource allocation.

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.

SERVICE DESIGN AND DELIVERY

Springer Science & Business Media Service Design and Delivery provides a comprehensive overview of the increasingly important role played by the service industry. Focusing on the development of different processes employed by service organizations, the book emphasizes management of service in relation to products. It not only explores the complexity of this relationship, but also introduces strategies used in the design and management of service across various sectors, highlighting where tools, techniques and processes applicable to one sector may prove useful in another. The implementation methods introduced in the book also illustrate how and why companies can transform themselves into service organizations. While the book is primarily intended as a text for advanced-level courses in service design and delivery, it also contains theoretical and practical knowledge beneficial to both practitioners in the service sector and those in manufacturing contemplating moving towards service delivery.

ECCWS 2018 17TH EUROPEAN CONFERENCE ON CYBER WARFARE AND SECURITY V2

Academic Conferences and publishing limited

PRACTICAL DESIGN PATTERNS FOR TEACHING AND LEARNING WITH TECHNOLOGY

Springer These are challenging times in which to be an educator. The constant flow of innovation offers new opportunities to support learners in an environment of ever-shifting demands. Educators work as they have always done: making the most of the resources at hand, and dealing with constraints, to provide experiences which foster growth. This was John Dewey's ideal of education 80 years ago and it is still relevant today. This view sees education as a practice that achieves its goals through creative processes involving both craft and design. Craft is visible in the resources that educators produce and in their interactions with learners. Design, though, is tacit, and educators are often unaware of their own design practices. The rapid pace of change is shifting the balance from craft to design, requiring that educators' design work become visible, shareable and malleable. The participatory patterns workshop is a method for doing this through engaging practitioners in collaborative reflection leading to the production of structured representations of design knowledge. The editors have led many such workshops and this book is a record of that endeavour and its outcomes in the form of practical design narratives, patterns and scenarios that can be used to address challenges in teaching and learning with technology.

COMPUTERWORLD

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

GUIDANCE FOR IMPLEMENTATION OF THE AASHTO STRATEGIC HIGHWAY SAFETY PLAN

A GUIDE FOR REDUCING WORK ZONE COLLISIONS

Transportation Research Board

HAZARDOUS AND RADIOACTIVE WASTE TREATMENT TECHNOLOGIES HANDBOOK

CRC Press Many books have been written on hazardous waste and nuclear waste separately, but none have combined the two subjects into one single-volume resource. *Hazardous and Radioactive Waste Treatment Technologies Handbook* covers the technologies, characteristics, and regulation of both hazardous chemical wastes and radioactive wastes. It provides an overview of recent waste technologies. A reference for scientists and engineers, the handbook focuses on waste-related thermal and non-thermal technologies, separation techniques, and stabilization technologies. It includes information on the DOE and DOD waste matrix located at various sites. It reveals current R&D activities in each technology and what improvements can be made in the future. A detailed schematic diagram illustrates each technology so that the process can be explicitly understood. In addition, the handbook covers relative life-cycle cost estimates for treatment systems using various technologies. With contributions from an international panel and extensively peer-reviewed, *Hazardous and Radioactive Waste Treatment Technologies Handbook* provides the latest information on waste remediation technologies and related regulations. Often in the field you will encounter more than one type of hazardous waste. This handbook gives you the design information you need to decide which technology to use and how to design the equipment for your particular needs. You can then incorporate appropriate technologies into a mixed waste treatment system.

MISSION-CRITICAL AND SAFETY-CRITICAL SYSTEMS HANDBOOK

DESIGN AND DEVELOPMENT FOR EMBEDDED APPLICATIONS

Newnes This handbook provides a consolidated, comprehensive information resource for engineers working with mission and safety critical systems. Principles, regulations, and processes common to all critical design projects are introduced in the opening chapters. Expert contributors then offer development models, process templates, and documentation guidelines from their own core critical applications fields: medical, aerospace, and military. Readers will gain in-depth knowledge of how to avoid common pitfalls and meet even the strictest certification standards. Particular emphasis is placed on best practices, design tradeoffs, and testing procedures. *Comprehensive coverage of all key concerns for designers of critical systems including standards compliance, verification and validation, and design tradeoffs *Real-world case studies contained within these pages provide insight from experience

EMBEDDED SOFTWARE

FIRST INTERNATIONAL WORKSHOP, EMSOFT 2001, TAHOE CITY, CA, USA, OCTOBER 8-10, 2001. PROCEEDINGS

Springer With the omnipresence of micro devices in our daily lives embedded software has gained tremendous importance in both science and industry. This volume contains 34 invited papers from the First International Workshop on Embedded Systems. They present latest research results from different areas of computer science that are traditionally distinct but relevant to embedded software development (such as, for example, component based design, functional programming, real-time Java, resource and storage allocation, verification). Each paper focuses on one topic, showing the inter-relationship and application to the design and implementation of embedded software systems.

QUALITY, RELIABILITY, SECURITY AND ROBUSTNESS IN HETEROGENEOUS NETWORKS

9TH INTERNATIONAL CONFERENCE, QSHINE 2013, GREATER NOIDA, INDIA, JANUARY 11-12, 2013, REVISED SELECTED PAPERS

Springer This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness, QShine 2013, which was held in National Capital Region (NCR) of India during January 2013. The 87 revised full papers were carefully selected from 169 submissions and present the recent technological developments in broadband high-speed networks, peer-to-peer networks, and wireless and mobile networks.

REPORT OF THE PRESIDENTIAL COMMISSION ON THE SPACE SHUTTLE CHALLENGER ACCIDENT

DIANE Publishing Reviews the circumstances surrounding the Challenger accident to establish the probable cause or causes of the accident. Develops recommendations for corrective or other action based upon the Commission's findings and determinations. Color photos, charts and tables.

CARBON MONOXIDE POISONING

CRC Press While an ever-present and familiar toxin, carbon monoxide (CO) remains the number one poison in our environment. This silent killer is responsible for over 2,000 deaths a year in the United

States alone. The public and healthcare communities need quality information about the many risks presented by carbon monoxide exposure. Edited by a leading expert in the field, Carbon Monoxide Poisoning delineates the successful means to prevent, identify, and manage the effects of CO poisoning. This volume explores new information on CO toxicity, including rehabilitation, the dissemination of information to the public, litigation involving CO poisoning, economic loss assessment, and firefighting. A series of chapters detail the risk of CO poisoning from kitchen ranges, recreational vehicles, and power boats. Expert contributors survey diagnostic procedures and devices, incorporating advances in brain SPECT imaging and non-invasive pulse-oximetry. The book includes chapters that specifically address the pros and cons of hyperbaric oxygen therapy and thoroughly review the physiological effects of acute and long term exposure to CO, as well as the neurocognitive and neurobehavioral sequelae. Whether you are a healthcare professional who treats CO poisoning, a lawyer involved in litigation for loss of life or property due to CO poisoning, or an engineer developing a well-insulated structure with sufficient ventilation; you will face the challenges raised by CO toxicology. Offering the only comprehensive reference on the subject, this multi-faceted guide takes an innovative look at how we can identify, treat, and prevent harmful exposure to carbon monoxide.