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[Selected Readings on Information Technology Management: Contemporary Issues](#) John Wiley & Sons

To meet the needs of today, engineered products and systems are an important element of the world economy, and each year billions of dollars are spent to develop, manufacture, operate, and maintain various types of products and systems around the globe. This book integrates and combines three of those topics to meet today's needs for the engineers working in these fields. This book provides a single volume that considers reliability, maintainability, and safety when designing new products and systems. Examples along with their solutions are placed at the end of each chapter to test readers' comprehension. The book is written in a manner that readers do not need any previous knowledge of the subject, and many references are provided. This book is also useful to many people, including design engineers, system engineers, reliability specialists, safety professionals, maintainability engineers, engineering administrators, graduate and senior undergraduate students, researchers, and instructors.

[Encyclopedia of Information Science and Technology, Third Edition](#) Addison-Wesley Professional

Global competition and other factors are forcing manufacturers to produce highly safe engineering systems and products. This book meets the needs for product designers, systems engineers, and safety engineers that work together and need a single resource which considers all three areas when designing new products and systems that they can refer to. Applied Safety for Engineers: Systems and Products serves as a comprehensive resource offering a wide range of safety topics when involved with product design, engineering system analysis, and engineering maintenance. Examples along with their solutions are placed at the end of each chapter to test reader comprehension. The book facilitates the importance for product designers, safety, and systems engineering professionals to work closely during the product design phase so they can understand each other's discipline. Written in a manner that readers do not need any previous knowledge on the subject, the book offers many sources for further reading at the end of each chapter. This book will be useful to product designers, system engineers, safety specialists, graduate and senior undergraduate students, researchers and manufacturers, industrial engineers, safety engineers, and engineers-at-large.

[Encyclopedia of Machine Learning](#) IGI Global

Textbook and reference work on the application of C++ in science and engineering.

Professional Advancements and Management Trends in the IT Sector IGI Global

This hands-on, laboratory driven textbook helps readers understand principles of digital signal processing (DSP) and basics of software-based digital communication, particularly software-defined networks (SDN) and software-defined radio (SDR). In the book only the most important concepts are presented. Each book chapter is an introduction to computer laboratory and is accompanied by complete laboratory exercises and ready-to-go Matlab programs with figures and comments (available at the book webpage and running also in GNU Octave 5.2 with free software packages), showing all or most details of relevant algorithms. Students are tasked to understand programs, modify them, and apply presented concepts to recorded real RF signal or simulated received signals, with modelled transmission condition and hardware imperfections. Teaching is done by showing examples and their modifications to different real-world telecommunication-like applications. The book consists of three parts: introduction to DSP (spectral analysis and digital filtering), introduction to DSP advanced topics (multi-rate, adaptive, model-based and multimedia - speech, audio, video - signal analysis and processing) and introduction to software-defined modern telecommunication systems (SDR technology, analog and digital modulations, single- and multi-carrier systems, channel estimation and correction as well as synchronization issues). Many real signals are processed in the book, in the first part - mainly speech and audio, while in the second part - mainly RF recordings taken from RTL-SDR USB stick and ADALM-PLUTO module, for example captured IQ data of VOR avionics signal, classical FM radio with RDS, digital DAB/DAB+ radio and 4G-LTE digital telephony. Additionally, modelling and simulation of some transmission scenarios are tested in software in the book, in particular TETRA, ADSL and 5G signals. Provides an introduction to digital signal processing and software-based digital communication; Presents a transition from digital signal processing to software-defined telecommunication; Features a suite of pedagogical materials including a laboratory test-bed and computer exercises/experiments.

[Extreme Programming and Agile Methods - XP/Agile Universe 2002](#) Mary Kathryn Thompson

Originally published: Upper Saddle River, NJ: Addison-Wesley, 2006 under title: Software engineering with Microsoft Visual studio team system.

[Business-Oriented Enterprise Integration for Organizational Agility](#) Springer Science & Business Media

"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

[Starting Digital Signal Processing in Telecommunication Engineering](#) CRC Press

This book describes a maximally simple market risk model that is still practical and main risk measures like the value-at-risk and the expected shortfall. It outlines the model's (i) underlying math, (ii) daily operation, and (iii) implementation, while stripping away statistical overhead to keep the concepts accessible. The author selects and

weighs the various model features, motivating the choices under real-world constraints, and addresses the evermore important handling of regulatory requirements. The book targets not only practitioners new to the field but also experienced market risk operators by suggesting useful data analysis procedures and implementation details. It furthermore addresses market risk consumers such as managers, traders, and compliance officers by making the model behavior intuitively transparent. A very useful guide to the theoretical and practical aspects of implementing and operating a risk-monitoring system for a mid-size financial institution. It sets a common body of knowledge to facilitate communication between risk managers, computer and investment specialists by bridging their diverse backgrounds. Giovanni Barone-Adesi - Professor, Università della Svizzera italiana This unassuming and insightful book starts from the basics and plainly brings the reader up to speed on both theory and implementation. Shane Hegarty - Director Trade Floor Risk Management, Scotiabank Visit the book's website at www.value-at-risk.com.

[The Rational Unified Process Made Easy](#) J. Ross Publishing

This is the first book ever published on the problems of true triaxial testing of rocks addressing all aspects of true triaxial testing of rocks, including: (i) true triaxial testing techniques and procedures; (ii) test results: strength, deformability, failure mode, permeability, acoustic emission, and elastic wave velocity; (iii) constitutive

[The Art of Systems Architecting, Third Edition](#) Prentice Hall

Serpent: Saddle User's Guide System Engineering Management John Wiley & Sons

Artech House

Real-time testing and simulation of open- and closed-loop radio frequency (RF) systems for signal generation, signal analysis and digital signal processing require deterministic, low-latency, high-throughput capabilities afforded by user reconfigurable field programmable gate arrays (FPGAs). This comprehensive book introduces LabVIEW FPGA, provides best practices for multi-FPGA solutions, and guidance for developing high-throughput, low-latency FPGA based RF systems. Written by a recognized expert with a wealth of real-world experience in the field, this is the first book written on the subject of FPGAs for radar and other RF applications.

[Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications](#) Cambridge University Press

While a typical project manager's responsibility and accountability are both limited to a project with a clear start and end date, IT managers are responsible for an ongoing, ever-changing process for which they must adapt and evolve to stay updated, dependable, and secure in their field. Professional Advancements and Management Trends in the IT Sector offers the latest managerial trends within the field of information technology management. By collecting research from experts from around the world, in a variety of sectors and levels of technical expertise, this volume offers a broad variety of case studies, best practices, methodologies, and research within the field of information technology management. It will serve as a vital resource for practitioners and academics alike.

[The Economics of Human Systems Integration](#) Springer

Computer systems have become an important element of the world economy, with billions of dollars spent each year on development, manufacture, operation, and maintenance. Combining coverage of computer system reliability, safety, usability, and other related topics into a single volume, Computer System Reliability: Safety and Usability eliminates the need to consult many different and diverse sources in the hunt for the information required to design better computer systems.

After presenting introductory aspects of computer system reliability such as safety, usability-related facts and figures, terms and definitions, and sources for obtaining useful information on computer system reliability, safety, and usability, the book: Reviews mathematical concepts considered useful to understanding subsequent chapters Presents various introductory aspects of reliability, safety, and usability and computer system reliability basics Covers software reliability assessment and improvement methods Discusses important aspects of software quality and human error and software bugs in computer systems Highlights software safety and Internet reliability Details important aspects of software usability including the need for considering usability during the software development phase, software usability engineering process, software usability inspection methods, software usability test methods, and guidelines for conducting software usability testing Elucidates web usability facts and figures, common design errors, web page design, tools for evaluating web usability, and questions to evaluate website message communication effectiveness Examines important aspects of computer system life cycle costing Written by systems reliability expert B.S. Dhillon, the book is accessible to all levels of readership, making it useful to beginners and seasoned professionals alike. Reflecting practical trends in computer engineering especially in the area of software, Dhillon emphasizes the importance of usability in software systems and expands reliability to web usability and management. It provides methods for designing systems with increased reliability, safety, and usability.

[Computer System Reliability](#) IGI Global

Computers as Components: Principles of Embedded Computing System Design, Fourth Edition, continues to focus on foundational content in embedded systems technology and design while introducing new content on security and safety, the design of Internet-of-Things devices and systems, and wireless communications standards like Bluetooth® and ZigBee®. Uses real processors to demonstrate both technology and techniques Shows readers

how to apply principles to actual design practice Stresses necessary fundamentals that can be applied to evolving technologies and helps readers gain facility to design large, complex embedded systems Covers the design of Internet-of-Things (IoT) devices and systems, including applications, devices, and communication systems and databases Introduces concepts of safety and security in embedded systems Includes new chapter on Automotive and Aerospace Systems Describes wireless communication standards such as Bluetooth® and ZigBee® Smart Data and Computational Intelligence John Wiley & Sons

"This book explores technical integration challenges with a focus on identifying a viable solution on how to enable rich, flexible, and responsive information links, in support of the changing business operations across organizations"--Provided by publisher.

Agile Software Engineering with Visual Studio Springer Science & Business Media

A practical, step-by-step guide to total systems management Systems Engineering Management, Fifth Edition is a practical guide to the tools and methodologies used in the field. Using a "total systems management" approach, this book covers everything from initial establishment to system retirement, including design and development, testing, production, operations, maintenance, and support. This new edition has been fully updated to reflect the latest tools and best practices, and includes rich discussion on computer-based modeling and hardware and software systems integration. New case studies illustrate real-world application on both large- and small-scale systems in a variety of industries, and the companion website provides access to bonus case studies and helpful review checklists. The provided instructor's manual eases classroom integration, and updated end-of-chapter questions help reinforce the material. The challenges faced by system engineers are candidly addressed, with full guidance toward the tools they use daily to reduce costs and increase efficiency. System Engineering Management integrates industrial engineering, project management, and leadership skills into a unique emerging field. This book unifies these different skill sets into a single step-by-step approach that produces a well-rounded systems engineering management framework. Learn the total systems lifecycle with real-world applications Explore cutting edge design methods and technology Integrate software and hardware systems for total SEM Learn the critical IT principles that lead to robust systems Successful systems engineering managers must be capable of leading teams to produce systems that are robust, high-quality, supportable, cost effective, and responsive. Skilled, knowledgeable professionals are in demand across engineering fields, but also in industries as diverse as healthcare and communications. Systems Engineering Management, Fifth Edition provides practical, invaluable guidance for a nuanced field.

Serpent: Saddle User's Guide IGI Global

The authors explain the underlying software development principles behind theRUP, and guide readers in its application in their organization.

Contemporary Computing CRC Press

This reference examines the engineering of both natural and human-made systems and the analysis of those systems. For the engineering of systems, the authors emphasize the process of bringing systems into being. Regarding analysis, they explore the improvement of systems already in existence. Includes a wealth of new and revised figures throughout. Features significant revisions and new material on Bringing Systems Into Being (Ch. 2); Conceptual Design (Ch. 3); Design For Supportability (Ch. 15); Design For Affordability - Life-Cycle Costing (Ch. 17). Adds material on the integration of design disciplines in the systems engineering. Concludes each chapter with new Summary Extensions. Provides a new supplier evaluation checklist. Includes a new appendix that lists 35 key related web sites. A useful reference for electrical, electronic, and automotive engineers, as well as professionals in the aeronautics, astronautics, and manufacturing industries.

Practical Model-Based Systems Engineering Addison-Wesley Professional

"This book provides a compendium of terms, definitions and explanations of concepts, processes and acronyms that reflect the growing trends, issues, and applications of technology project management"--Provided by publisher.

Project Management the Agile Way Springer Nature

This book constitutes the thoroughly refereed post-proceedings of the Web- and Database-Related Workshops held during the NetObjectDays international conference NODe 2002, in Erfurt, Germany, in October 2002. The 19 revised full papers presented together with 3 keynote papers were carefully selected during 2 rounds of reviewing and improvement. The papers are organized in topical sections on advanced Web-services, UDDI extensions, description and classification of Web services, applications based on Web-services, indexing and accessing, Web and XML databases, mobile devices and the Internet, and XML query languages.

Reliability, Maintainability, and Safety for Engineers Springer Science & Business Media

This book gathers the proceedings of the International Conference on Advanced Information Technology, Services and Systems (AIT2S-18), which was held in Mohammedia, Morocco on October 17 – 18, 2018. Presenting the latest research in the fields of Modern Information Engineering Concepts and Communication Systems, the book will also be of interest to those working in emerging fields such as Advances in Networking and Sensor Networks, Advances in Software Engineering, Multimedia Systems, E-learning, Big Data, Intelligent Information Systems and Advances in Natural Language Processing.