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Designing Data-Intensive Applications - Martin Kleppmann 2017-03-16
Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures

The Requirements Engineering Handbook - Ralph Rowland Young 2004
Gathering customer requirements is a key activity for developing software that meets the customer's needs. A concise and practical overview of everything a requirement's analyst needs to know about establishing customer requirements, this first-of-its-kind book is the perfect desk guide for systems or software development work. The book enables professionals to identify the real customer requirements for their projects and control changes and additions to these requirements. This unique resource helps practitioners understand the importance of requirements, leverage effective requirements practices, and better utilize resources. The book also explains how to strengthen interpersonal relationships and communications which are major contributors to project effectiveness. Moreover, analysts find clear examples and checklists to help them implement best practices.

User Story Mapping - Jeff Patton 2014-09-05
User story mapping is a valuable tool for software development, once you understand why and how to use it. This insightful book examines how this often misunderstood technique can help your team stay focused on users and their needs without getting lost in the enthusiasm for individual product features. Author Jeff Patton shows you how changeable story maps enable your team to hold better conversations about the project throughout the development process. Your team will learn to come away with a shared understanding of what you're attempting to build and why. Get a high-level view of story mapping, with an exercise to learn key concepts quickly Understand how stories really work, and how they come to life in Agile and Lean projects Dive into a story's lifecycle, starting with opportunities and moving deeper into discovery Prepare your stories, pay attention while they're built, and learn from those you convert to working software

System Engineering Analysis, Design, and Development Charles S. Wasson 2015-11-16
Praise for the first edition: "This excellent text will be useful to everysystem engineer (SE) regardless of the domain. It covers ALLrelevant SE material and does so in a very clear, methodicalfashion. The breadth and depth of the author's presentation ofSE principles and practices is outstanding." –Philip Allen This textbook presents a comprehensive, step-by-step guide toSystem Engineering analysis, design, and development via anintegrated set of concepts, principles, practices, andmethodologies. The methods presented in this text apply to any typeof human system -- small, medium, and large organizational

systemsand system development projects delivering engineered systems orservices across multiple business sectors such as medical,transportation, financial, educational, governmental, aerospace anddefense, utilities, political, and charity, among others. Provides a common focal point for "bridgingthe gap" between and unifying System Users, System Acquirers,multi-discipline System Engineering, and Project, Functional, andExecutive Management education, knowledge, and decision-making fordeveloping systems, products, or services Each chapter provides definitions of key terms,guiding principles, examples, author's notes, real-worldexamples, and exercises, which highlight and reinforce key SE&Dconcepts and practices Addresses concepts employed in Model-BasedSystems Engineering (MBSE), Model-Driven Design (MDD), UnifiedModeling Language (UMLTM) / Systems Modeling Language(SysMLTM), and Agile/Spiral/V-Model Development such asuser needs, stories, and use cases analysis; specificationdevelopment; system architecture development; User-Centric SystemDesign (UCSD); interface definition & control; systemintegration & test; and Verification & Validation(V&V) Highlights/introduces a new 21st Century SystemsEngineering & Development (SE&D) paradigm that is easy tounderstand and implement. Provides practices that are critical stagingpoints for technical decision making such as Technical StrategyDevelopment; Life Cycle requirements; Phases, Modes, & States;SE Process; Requirements Derivation; System ArchitectureDevelopment, User-Centric System Design (UCSD); EngineeringStandards, Coordinate Systems, and Conventions; et al. Thoroughly illustrated, with end-of-chapter exercises andnumerous case studies and examples, Systems EngineeringAnalysis, Design, and Development, Second Edition is a primarytextbook for multi-discipline, engineering, system analysis, andproject management undergraduate/graduate level students and avaluable reference for professionals.

Secure Coding in C and C++ Robert C. Seacord 2005-09-09
"The security of information systems has not improved at a rate consistent with the growth and sophistication of the attacks being made against them. To address this problem, we must improve the underlying strategies and techniques used to create our systems. Specifically, we must build security in from the start, rather than append it as an afterthought. That's the point of Secure Coding in C and C++. In careful detail, this book shows software developers how to build high-quality systems that are less vulnerable to costly and even catastrophic attack. It's a book that every developer should read before the start of any serious project." --Frank Abagnale, author, lecturer, and leading consultant on fraud prevention and secure documents Learn the Root Causes of Software Vulnerabilities and How to Avoid Them Commonly exploited software vulnerabilities are usually caused by avoidable software defects. Having analyzed nearly 18,000 vulnerability reports over the past ten years, the CERT/Coordination Center (CERT/CC) has determined that a relatively small number of root causes account for most of them. This book identifies and explains these causes and shows the steps that can be taken to prevent exploitation. Moreover, this book encourages programmers to adopt security best practices and develop a security mindset that can help protect software from tomorrow's attacks, not just today's. Drawing on the CERT/CC's reports and conclusions, Robert Seacord systematically identifies the program errors most likely to lead to security breaches, shows how they can be exploited, reviews the potential consequences, and presents secure alternatives. Coverage includes technical detail on how to Improve the overall security of any C/C++ application Thwart buffer overflows and stack-smashing attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer-related problems: integer overflows, sign errors, and truncation errors Correctly use formatted

output functions without introducing format-string vulnerabilities Avoid I/O vulnerabilities, including race conditions Secure Coding in C and C++ presents hundreds of examples of secure code, insecure code, and exploits, implemented for Windows and Linux. If you're responsible for creating secure C or C++ software--or for keeping it safe--no other book offers you this much detailed, expert assistance.

Guide to the Software Engineering Body of Knowledge (Swebok(r)) - IEEE Computer Society 2014
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)).

Project Management for IT-Related Projects - Roger Ireland 2012-09-14
Annotation Written by the team who created the syllabus and exam papers, this textbook encompasses the entire syllabus of the ISEB Foundation Certificate in IS Project Management.

Federal Information System Controls Audit Manual (FISCAM) - Robert F. Dacey 2010-11
FISCAM presents a methodology for performing info. system (IS) control audits of governmental entities in accordance with professional standards. FISCAM is designed to be used on financial and performance audits and attestation engagements. The methodology in the FISCAM incorp. the following: (1) A top-down, risk-based approach that considers materiality and significance in determining audit procedures; (2) Evaluation of entitywide controls and their effect on audit risk; (3) Evaluation of general controls and their pervasive impact on bus. process controls; (4) Evaluation of security mgmt. at all levels; (5) Control hierarchy to evaluate IS control weaknesses; (6) Groupings of control categories consistent with the nature of the risk. Illus.

A Practical Guide to Earned Value Project Management - Charles I. Budd 2009-10
The Best Resource on Earned Value Management Just Got Better! This completely revised and updated guide to earned value (EV) project management is the go-to choice for both corporate and government professionals. A Practical Guide to Earned Value Project Management, Second Edition, first offers a general overview of basic project management best practices and then delves into detailed information on EV metrics and criteria, EV reporting mechanisms, and the 32 criteria of earned value management systems (EVMS) promulgated by the American National Standards Institute and the Electronic Industries Alliance and adopted by the Department of Defense. This second edition includes new material on: • EV metrics • Implementing EVMS • Government contracts • Time-based earned schedule metrics • Critical chain methodologies

Information Security - Mark Stamp 2005-11-11
Your expert guide to information security As businesses and consumers become more dependent on complexmultinational information systems, the need to understand anddevise sound information security systems has never been greater.This title takes a practical approach to information security byfocusing on real-world examples. While not sidestepping the theory,the emphasis is on developing the skills and knowledge thatsecurity and information technology students and professionals needto face their challenges. The book is organized around four majorthemes: * Cryptography: classic cryptosystems, symmetric key cryptography,public key cryptography, hash functions, random numbers,information hiding, and cryptanalysis * Access control: authentication and authorization, password-basedsecurity, ACLs and capabilities, multilevel and multilateralsecurity, covert channels and inference control, BLP and Biba'smodels, firewalls, and intrusion detection systems * Protocols: simple authentication protocols, session keys, perfectforward secrecy, timestamps, SSL, IPSec, Kerberos, and GSM * Software: flaws and malware, buffer overflows, viruses and worms,software reverse engineering, digital rights management, securesoftware development, and operating systems security Additional features include numerous figures and tables toillustrate and clarify

complex topics, as well as problems-rangingfrom basic to challenging-to help readers apply their newlydeveloped skills. A solutions manual and a set of classroom-testedPowerPoint(r) slides will assist instructors in their coursedevelopment. Students and professors in information technology,computer science, and engineering, and professionals working in thefield will find this reference most useful to solve theirinformation security issues. An Instructor's Manual presenting detailed solutions to all theproblems in the book is available from the Wiley editorialdepartment. An Instructor Support FTP site is also available.

Implementing IT Governance - A Practical Guide to Global Best Practices in IT Management - Gad J. Selig 2008-04-12
The issues, opportunities and challenges of aligning information technology more closely with an organization and effectively governing an organization's Information Technology (IT) investments, resources, major initiatives and superior uninterrupted service is becoming a major concern of the Board and executive management in enterprises on a global basis. An integrated and comprehensive approach to the alignment, planning, execution and governance of IT and its resources has become critical to more effectively align, integrate, invest, measure, deploy, service and sustain the strategic and tactical direction and value proposition of IT in support of organizations. Much has been written and documented about the individual components of IT Governance such as strategic planning, demand (portfolio investment) management, program and project management, IT service management and delivery, strategic sourcing and outsourcing, performance management and metrics, like the balanced scorecard, compliance and others. Much less has been written about a comprehensive and integrated IT/Business Alignment, Planning, Execution and Governance approach. This new title fills that need in the marketplace and gives readers a structured and practical solutions using the best of the best principles available today. The book is divided into nine chapters, which cover the three critical pillars necessary to develop, execute and sustain a robust and effective IT governance environment - leadership and proactive people and change agents, flexible and scalable processes and enabling technology. Each of the chapters also covers one or more of the following action oriented topics: demand management and alignment (the why and what of IT – strategic planning, portfolio investment management, decision authority, etc.); execution management (includes the how - Program/Project Management, IT Service Management with IT Infrastructure Library (ITIL) and Strategic Sourcing and outsourcing); performance, risk and contingency management (e.g. includes COBIT, the balanced scorecard and other metrics and controls); and leadership, teams and people skills.

Successful Project Management Bonnie Biafore 2011-03-15
Learn best practices and proven methods from project management professionals—and apply these skills as you work with Microsoft Project. In this practical guide, project management expert Bonnie Biafore shows you how to manage projects efficiently and effectively, sharing the real-world experiences of project managers in several industries. You'll learn how to put the best practices and hard-won lessons of experts to work on your critical projects. Sharpen the skills you need to manage projects expertly—from start to finish Communicate effectively with project stakeholders, management, and team members Apply methods to break down the project into small, manageable pieces Define work assignments, choose resources, and build project schedules Accurately estimate project costs and work with a budget Identify project changes and manage risks Track progress and balance priorities without sacrificing quality Document project history and lessons learned to help improve future projects Project files available on the companion website.

A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Seventh Edition and The Standard for Project Management (BRAZILIAN PORTUGUESE) - Project Management Institute Project Management Institute 2021-08-01
PMBOK&® Guide is the go-to resource for project management practitioners. The project management profession has significantly evolved due to emerging technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12 principles of project management and the PMBOK&® Guide &– Seventh Edition is structured around eight project performance domains.This edition is designed to address practitioners' current and future needs and to help them be more proactive, innovative and nimble in enabling desired project outcomes.This edition of the PMBOK&® Guide:•Reflects the full range of development approaches (predictive, adaptive, hybrid, etc.);•Provides an entire section devoted to tailoring the development approach and processes;•Includes an expanded list of

models, methods, and artifacts;•Focuses on not just delivering project outputs but also enabling outcomes; and• Integrates with PMIstandards+™ for information and standards application content based on project type, development approach, and industry sector.

Agile Project Management with Scrum - Ken Schwaber 2004-02-11 The rules and practices for Scrum—a simple process for managing complex projects—are few, straightforward, and easy to learn. But Scrum's simplicity itself—its lack of prescription—can be disarming, and new practitioners often find themselves reverting to old project management habits and tools and yielding lesser results. In this illuminating series of case studies, Scrum co-creator and evangelist Ken Schwaber identifies the real-world lessons—the successes and failures—culled from his years of experience coaching companies in agile project management. Through them, you'll understand how to use Scrum to solve complex problems and drive better results—delivering more valuable software faster. Gain the foundation in Scrum theory—and practice—you need to: Rein in even the most complex, unwieldy projects Effectively manage unknown or changing product requirements Simplify the chain of command with self-managing development teams Receive clearer specifications—and feedback—from customers Greatly reduce project planning time and required tools Build—and release—products in 30-day cycles so clients get deliverables earlier Avoid missteps by regularly inspecting, reporting on, and fine-tuning projects Support multiple teams working on a large-scale project from many geographic locations Maximize return on investment!

Implementing Effective IT Governance and IT Management - Gad J. Selig 2015-02-01 This book is a revised edition of the best selling title Implementing IT Governance (ISBN 978 90 8753 119 5).For trainers free additional material of this book is available. This can be found under the "Training Material" tab. Log in with your trainer account to access the material.In all enterprises around the world, the issues, opportunities and challenges of aligning IT more closely with the organization and effectively governing an organization s IT investments, resources, major initiatives and superior uninterrupted service is becoming a major concern of the Board and executive management. An integrated and comprehensive approach to the alignment, planning, execution and governance of IT and its resources has become critical to more effectively align, integrate, invest, measure, deploy, service and sustain the strategic and tactical direction and value proposition of IT in support of organizations.Much has been written and documented about the individual components of IT Governance such as strategic planning, demand management, program and project management, IT service management, strategic sourcing and outsourcing, performance management, metrics, compliance and others. Much less has been written about a comprehensive and integrated approach for IT/Business Alignment, Planning, Execution and Governance. This title fills that need in the marketplace and offers readers structured and practical solutions using the best of the best practices available today. The book is divided into two parts, which cover the three critical pillars necessary to develop, execute and sustain a robust and effective IT governance environment:- Leadership, people, organization and strategy,- IT governance, its major component processes and enabling technologies.Each of the chapters also covers one or more of the following action oriented topics: - the why and what of IT: strategic planning, portfolio investment management, decision authority, etc.; - the how of IT: Program/Project Management, IT Service Management (including ITIL); Strategic Sourcing and outsourcing; performance, risk and contingency management (including COBIT, the Balanced Scorecard etc.) and leadership, team management and professional competences.

IRS Printed Product Catalog - United States. Internal Revenue Service 1995

Standards for Internal Control in the Federal Government - Government Accountability Office 2014-12 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

The Business Analyst's Handbook - Howard Podeswa 2009 One of the objectives of this book is to incorporate best practices and standards in to the BA role. While a number of standards and guidelines, such as Business Process Modeling Notation (BPMN), have been incorporated, particular emphasis has been placed on the Business Analysis Body of Knowledge (BABOK), the Information Technology Infrastructure Library (ITIL), and the Unified Modeling Language (UML).

Divestitures and Spin-Offs - Joseph Joy 2018-02-08 The world of M&A has always been complex and nuanced. Corporations encounter their toughest business problems during a divestiture or a merger. At the same time, optimal execution of divestitures can also create high value for the seller as well as the buyer. This book is a collection of leading practices on Divestitures and covers end to end transaction life cycle from readiness through execution including post deal transformation. It contains the synthesis of experiences across a wide array of clients across industries, ranging from $500 million to $100 billion in revenue. Each chapter in this book can stand on its own as an authority on leading practices related to the topic it presents, and together, these chapters provide a comprehensive set of perspectives needed to successfully complete a divestiture. The highlight of the book is valuable real-life examples and references that a business can benefit from, when it is considering, analyzing or implementing a divestiture.

The Project Management Life Cycle - Jason Westland 2007-01-03 The Project Management Life Cycle reveals the unique Method 123 Project Management Methodology by defining the phases, activities and tasks required to complete a project. It's different because it describes the life cycle clearly and prescriptively, without the complex terminology rife throughout the industry. Its comprehensive coverage, consistent depth and suite of tools will help managers to undertake projects successfully. Containing hundreds of practical examples to enhance the reader's understanding of project management, the book skilfully guides them through the four critical phases of the project life cycle: initiation, planning, execution and closure. Written in a clear, professional and straightforward manner, it is relevant to the management of all types of project, including IT, construction, engineering, telecommunications and government, as well as many others. An essential guide to improving project management skills for project managers, senior managers, team members, consultants, trainers or students. Additional resources can be downloaded from http://tinyurl.com/bq2dbuw by scrolling down to the 'Resources' section.

A Guide to Federal Terms and Acronyms - Don Philpott 2017-12-20 This new edition of A Guide to Federal Terms and Acronyms presents a glossary of key definitions used by the Federal Government. It is updated to include new acronyms and terminology from various Federal Government departments.

Managing and Implementing Microsoft SharePoint 2010 Projects - Geoff Evelyn 2010 "Learn proven techniques and methods for successfully creating a

SharePoint system specification. The purpose of a SharePoint system specification for an organization is to expand on the user requirements in order to produce a clear, complete and unambiguous set of documentation. Discover how to describe the intended system in terms of its function, performance, interfaces, and design constraints."--Resource description p.

Project Management the Agile Way, Second Edition - John C. Goodpasture 2015-11-01

"…a well written and content rich book. From a teacher's perspective, using this book in an advanced project management seminar challenges students to understand the application of these concepts." —Alexander Walton, PMP, IT consultant to the University of California at Berkeley Widely acclaimed as one of the top agile books in its first edition, Project Management the Agile Way has now been updated and redesigned by popular demand. This second edition is in a modular format to facilitate training and advanced course instruction, and provides new coverage of agile, such as hybrid agile methods, the latest public sector practices, and a chapter dedicated to transitioning to agile. It discusses the "grand bargain" between project management and business; the shift in dominance from plans to product and from input to output; and introduces new concepts such as return on benefit. Experienced practitioners and students that want to learn how to make agile work effectively in the enterprise should read this book. Individuals preparing for the PMI Agile Certified Practitioner (PMI-ACP)®examination, and training providers developing courses, will find this second edition quite helpful.

Management Information Systems - James O. Hicks 1987

Modern Systems Analysis And Design - Hoffer 2013

Identifying and Managing Project Risk - Tom Kendrick 2009-02-27 Winner of the Project Management Institute's David I. Cleland Project Management Literature Award 2010 It's no wonder that project managers spend so much time focusing their attention on risk identification. Important projects tend to be time constrained, pose huge technical challenges, and suffer from a lack of adequate resources. Identifying and Managing Project Risk, now updated and consistent with the very latest Project Management Body of Knowledge (PMBOK)® Guide, takes readers through every phase of a project, showing them how to consider the possible risks involved at every point in the process. Drawing on real-world situations and hundreds of examples, the book outlines proven methods, demonstrating key ideas for project risk planning and showing how to use high-level risk assessment tools. Analyzing aspects such as available resources, project scope, and scheduling, this new edition also explores the growing area of Enterprise Risk Management. Comprehensive and completely up-to-date, this book helps readers determine risk factors thoroughly and decisively...before a project gets derailed.

*Strategic Project Management*Corlane Barclay 2015-08-18 Based on expert practitioners contributions from across the globe including Brazil, Jamaica, Malaysia, Pakistan, Thailand, the United Kingdom, and the United States, Strategic Project Management: Contemporary Issues and Strategies for Developing Economies offers modern experiences, best practices, and tools for individuals and teams working in pro

*Systems Analysis and Design*Alan Dennis 2008-12-10 The 4th edition of Systems Analysis and Design continues to offer a hands-on approach to SA&D while focusing on the core set of skills that all analysts must possess. Building on their experience as professional systems analysts and award-winning teachers, authors Dennis, Wixom, and Roth capture the experience of developing and analyzing systems in a way that students can understand and apply. With Systems Analysis and Design, 4th edition, students will leave the course with experience that is a rich foundation for further work as a systems analyst.

*Information Systems Project Management*Jolyon Hallows 2005 Plan, Information Systems Project Management helps you successfully deliver your projects on time, on budget, and with desired results.

Implementing IT Governance - A Practical Guide to Global Best Practices in IT Management - Gad J. Selig 2008-04-12 The issues, opportunities and challenges of aligning information technology more closely with an organization and effectively governing an organization s Information Technology (IT) investments, resources, major initiatives and superior uninterrupted service is becoming a major concern of the Board and executive management in enterprises on a global basis. An integrated and comprehensive approach to the

alignment, planning, execution and governance of IT and its resources has become critical to more effectively align, integrate, invest, measure, deploy, service and sustain the strategic and tactical direction and value proposition of IT in support of organizations.Much has been written and documented about the individual components of IT Governance such as strategic planning, demand (portfolio investment) management, program and project management, IT service management and delivery, strategic sourcing and outsourcing, performance management and metrics, like the balanced scorecard, compliance and others. Much less has been written about a comprehensive and integrated IT/Business Alignment, Planning, Execution and Governance approach. This new title fills that need in the marketplace and gives readers a structured and practical solutions using the best of the best principles available today. The book is divided into nine chapters, which cover the three critical pillars necessary to develop, execute and sustain a robust and effective IT governance environment - leadership and proactive people and change agents, flexible and scalable processes and enabling technology. Each of the chapters also covers one or more of the following action oriented topics: demand management and alignment (the why and what of IT strategic planning, portfolio investment management, decision authority, etc.); execution management (includes the how - Program/Project Management, IT Service Management with IT Infrastructure Library (ITIL) and Strategic Sourcing and outsourcing); performance, risk and contingency management (e.g. includes COBIT, the balanced scorecard and other metrics and controls); and leadership, teams and people skills.

*Systems Analysis and Design in a Changing World*John W. Satzinger 2015-02-01

Refined and streamlined, SYSTEMS ANALYSIS AND DESIGN IN A CHANGING WORLD, 7E helps students develop the conceptual, technical, and managerial foundations for systems analysis design and implementation as well as project management principles for systems development. Using case driven techniques, the succinct 14-chapter text focuses on content that is key for success in today's market. The authors' highly effective presentation teaches both traditional (structured) and object-oriented (OO) approaches to systems analysis and design. The book highlights use cases, use diagrams, and use case descriptions required for a modeling approach, while demonstrating their application to traditional, web development, object-oriented, and service-oriented architecture approaches. The Seventh Edition's refined sequence of topics makes it easier to read and understand than ever. Regrouped analysis and design chapters provide more flexibility in course organization. Additionally, the text's running cases have been completely updated and now include a stronger focus on connectivity in applications. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

IT Control Objectives for Sarbanes-Oxley - IT Governance Institute 2006

*Decision Support Systems*Daniel J. Power 2002 For MIS specialists and nonspecialists alike, a comprehensive, readable, understandable guide to the concepts and applications of decision support systems.

The Security Development Lifecycle - Michael Howard 2006 Describes how to put software security into practice, covering such topics as risk analysis, coding policies, Agile Methods, cryptographic standards, and threat tree patterns.

Implementing Effective It Governance and It Management - Van Haren Publishing 2015-02

In all enterprises around the world, the issues, opportunities and challenges of aligning IT more closely with the organization and effectively governing an organizations IT investments, resources, major initiatives and superior uninterrupted service is becoming a major concern of the Board and executive management. An integrated and comprehensive approach to the alignment, planning, execution and governance of IT and its resources has become critical to more effectively align, integrate, invest, measure, deploy, service and sustain the strategic and tactical direction and value proposition of IT in support of organizations. Much has been written and documented about the individual components of IT Governance such as strategic planning, demand management, program and project management, IT service management, strategic sourcing and outsourcing, performance management, metrics, compliance and others. Much less has been written about a comprehensive and integrated approach

Project Management Handbook - Jürg Kuster 2015-06-08

This practical handbook offers a comprehensive guide to efficient project management. It pursues a broad, well-structured approach, suitable for most projects, and allows newcomers, experienced project managers and decision-makers to find valuable input that matches their specific needs. The Project Management Compass guides readers through various sections of the book; templates and checklists offer additional support. The handbook's innovative structure combines concepts from systems engineering, management psychology, and process dynamics. This international edition will allow to share the authors' experience gained in many years of project work and over 2,000 project management and leadership seminars conducted for BWI Management Education in Zurich, Switzerland. This is an excellent handbook for practical project management in today's world. Prof. Dr. Heinz Schelle, Honorary Chairman of the GPM (German Project Management Association)The authors' many years in practical experience in setting up, implementing and managing projects shines through in this book. The book also reflects the current trend towards increased social competence. I am therefore pleased to recommend this book as a basis for certification in project management. Dr. Hans Knöpfel, Honorary President of the SPM (Swiss Project Management Association)

MITRE Systems Engineering Guide 2012-06-05

Successful Project Management - Jack Gido 2014-02-28
Gido/Clements's best-selling SUCCESSFUL PROJECT MANAGEMENT, 6E presents everything you need to know to work successfully in today's exciting project management environment, from the organization and management of effective project teams to planning, scheduling, and cost management. Revised chapters closely align with the PMBOK (Project Management Body of Knowledge) framework to ensure that you are mastering today's best management practices. Coverage of the latest business developments and challenges introduce issues such as project constraints, the project charter, and how projects relate to an organization's strategic plan. You even gain experience working with the latest version of today's most popular project management software--Microsoft Project 2013--using the trial version that is available to download on the student companion site. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Sun Tracking and Solar Renewable Energy Harvesting - Gerro Prinsloo 2015-11-02
Free to download eBook on Practical Solar Tracking Design, Solar Tracking, Sun Tracking, Sun Tracker, Solar Tracker, Follow Sun, Sun Position calculation (Azimuth, Elevation, Zenith), Sun following, Sunrise, Sunset, Moon-phase, Moonrise, Moonset calculators. In harnessing power from the sun through a solar tracker or solar tracking system, renewable energy system developers require automatic solar tracking software and solar position algorithms. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun's passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, solar equinox and winter solstice. Eco Friendly and Environmentally Sustainable Micro Combined Solar Heat and Power (m-CHP, m-CCHP, m-CHCP) with Microgrid Storage and Layered Smartgrid Control towards Supplying Off-Grid Rural Villages in developing BRICS countries such as Africa,

India, China and Brazil. Off-grid rural villages and isolated islands areas require mCHP and trigeneration solar power plants and associated isolated smart microgrid solutions to serve the community energy needs. This article describes the development progress for such a system, also referred to as solar polygeneration. The system includes a sun tracker mechanism wherin a parabolic dish or lenses are guided by a light sensitive mechanique in a way that the solar receiver is always at right angle to the solar radiation. Solar thermal energy is then either converted into electrical energy through a free piston Stirling, or stored in a thermal storage container. The project includes the thermodynamic modeling of the plant in Matlab Simulink as well as the development of an intelligent control approach that includes smart microgrid distribution and optimization. The book includes aspects in the simulation and optimization of stand-alone hybrid renewable energy systems and co-generation in isolated or islanded microgrids. It focusses on the stepwise development of a hybrid solar driven micro combined cooling heating and power (mCCHP) compact trigeneration polygeneration and thermal energy storage (TES) system with intelligent weather prediction, weak-ahead scheduling (time horizon), and look-ahead dispatch on integrated smart microgrid distribution principles. The solar harvesting and solar thermodynamic system includes an automatic sun tracking platform based on a PLC controlled mechatronic sun tracking system that follows the sun progressing across the sky. An intelligent energy management and adaptive learning control optimization approach is proposed for autonomous off-grid remote power applications, both for thermodynamic optimization and smart micro-grid optimization for distributed energy resources (DER). The correct resolution of this load-following multi objective optimization problem is a complex task because of the high number and multi-dimensional variables, the cross-correlation and interdependency between the energy streams as well as the non-linearity in the performance of some of the system components. Exergy-based control approaches for smartgrid topologies are considered in terms of the intelligence behind the safe and reliable operation of a microgrid in an automated system that can manage energy flow in electrical as well as thermal energy systems. The standalone micro-grid solution would be suitable for a rural village, intelligent building, district energy system, campus power, shopping mall centre, isolated network, eco estate or remote island application setting where self-generation and decentralized energy system concepts play a role. Discrete digital simulation models for the thermodynamic and active demand side management systems with digital smartgrid control unit to optimize the system energy management is currently under development. Parametric simulation models for this trigeneration system (polygeneration, poligeneration, quadgeneration) are developed on the Matlab Simulink and TrnSys platforms. In terms of model predictive coding strategies, the automation controller will perform multi-objective cost optimization for energy management on a microgrid level by managing the generation and storage of electrical, heat and cooling energies in layers. Each layer has its own set of smart microgrid priorities associated with user demand side cycle predictions. Mixed Integer Linear Programming and Neural network algorithms are being modeled to perform Multi Objective Control optimization as potential optimization and adaptive learning techniques.

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