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System Verification-Jeffrey O. Grady 2016-05-07 System Verification: Proving the Design Solution Satisfies the Requirements, Second Edition explains how to determine what verification work must be done, how the total task can be broken down into verification tasks involving six straightforward methods, how to prepare a plan, procedure, and report for each of these tasks, and how to conduct an audit of the content of those reports for a particular product entity. This process-centered book is applicable to engineering and computing projects of all kinds, and the lifecycle approach helps all stakeholders in the design process understand how the verification and validation stage is significant to them. In addition to many flowcharts that illustrate the verification procedures involved, the book also includes 14 verification form templates for use in practice. The author draws on his experience of consulting for industry as well as lecturing to provide a uniquely practical and easy to use guide which is essential reading for systems and validation engineers, as well as everyone involved in the product design process. Includes 14 real life templates for use in verification tasks Explains concepts in the context of the entire design lifecycle, helping all project stakeholders engage Contains a process-focused approach to design model verification that can be applied to all engineering design and software development projects

Strategic Requirements Analysis-Dr Karl Cox 2016-01-28 One of the many important skills a business analyst needs in requirements discovery is the ability to effectively plan, conduct and manage a set of interviews to get the requirements right, be they strategic, operational or IT-oriented. In Strategic Requirements Analysis Dr Karl A. Cox offers a process, guidelines and ideas - that have been tried and tested in practice - for conducting interviews and shows you how to turn interview findings into strategic requirements models all on one page, to present to your clients, customers, team and supervisors.

Federal Register- 2012-09

Mastering the Requirements Process-Suzanne Robertson 2012-08-06 "If the purpose is to create one of the best books on requirements yet written, the authors have succeeded." —Capers Jones Software can solve almost any problem. The trick is knowing what the problem is. With about half of all software errors originating in the requirements activity, it is clear that a better understanding of the problem is needed. Getting the requirements right is crucial if we are to build systems that best meet our needs. We know, beyond doubt, that the right requirements produce an end result that is as innovative and beneficial as it can be, and that system development is both effective and efficient. Mastering the Requirements Process: Getting Requirements Right, Third Edition, sets out an industry-proven process for gathering and verifying requirements, regardless of whether you work in a traditional or agile development environment. In this sweeping update of the bestselling guide, the authors show how to discover precisely what the customer wants and needs, in the most efficient manner possible. Features include The Volere requirements process for discovering requirements, for use with both traditional and iterative environments A specification template that can be used as the basis for your own requirements specifications Formality guides that help you funnel your efforts into only the requirements work needed for your particular development environment and project How to make requirements testable using fit criteria Checklists to help identify stakeholders, users, non-functional requirements, and more Methods for reusing requirements and requirements patterns New features include Strategy guides for different environments, including outsourcing Strategies for gathering and implementing requirements for iterative releases "Thinking above the line" to find the real problem How to move from requirements to finding the right solution The Brown Cow model for clearer viewpoints of the system Using story cards as requirements Using the Volere Knowledge Model to help record and communicate requirements Fundamental truths about requirements and system development

Software Requirement Patterns-Stephen Withall 2007-06-13 Learn proven, real-world techniques for specifying software requirements with this practical reference. It details 30 requirement "patterns" offering realistic examples for situation-specific guidance for building effective software requirements. Each pattern explains what a requirement needs to convey, offers potential questions to ask, points out potential pitfalls, suggests extra requirements, and other advice. This book also provides guidance on how to write other kinds of information that belong in a requirements specification, such as assumptions, a glossary, and document history and references, and how to structure a requirements specification. A disturbing proportion of computer systems are judged to be inadequate; many are not even delivered; many are late or over budget. Studies consistently show one of the single biggest causes is poorly defined requirements: not properly defining what a system is for and what it's supposed to do. Even a modest contribution to improving requirements offers the prospect of saving businesses part of a large sum of wasted investment. This guide emphasizes this important requirement need—determining what a software system needs to do before spending time on development. Expertly written, this book details solutions that have worked in the past, with guidance for modifying patterns to fit individual needs—giving developers the valuable advice they need for building effective software requirements

Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills-Yu, Ligu 2014-03-31 Computer science graduates often find software engineering knowledge and skills are more in demand after they join the industry. However, given the lecture-based curriculum present in academia, it is not an easy undertaking to deliver industry-standard knowledge and skills in a software engineering classroom as such lectures hardly engage or convince students. Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills combines recent advances and best practices to improve the curriculum of software engineering education. This book is an essential reference source for researchers and educators seeking to bridge the gap between industry expectations and what academia can provide in software engineering education.

Handbook of Research on the Role of Human Factors in IT Project Management-Misra, Sanjay 2019-09-27 The role humans play in the field of information technology continues to hold relevance even with the industry's rapid growth. People contribute heavily to the physical, cognitive, and organizational domain of computing, yet there is a lack of exploration into this phenomenon. Humanoid aspects of technology require extensive research in order to avoid marginalization and insufficient data. The Handbook of Research on the Role of Human Factors in IT Project Management is a collection of innovative research on the methods and applications of the task of human characteristics in the design and development of new technology. While highlighting topics including digitalization, risk management, and task analysis, this book is ideally designed for IT professionals, managers, support executives, project managers, managing directors, academicians, researchers, and students seeking current research on the dynamics of human influence in technological projects.

Lovability-Brian de Haaff 2017-04-25 Love is the surprising emotion that company builders cannot afford to ignore. Genuine, heartfelt devotion and loyalty from customers — yes, love — is what propels a select few companies ahead. Think about the products and companies that you really care about and how they make you feel. You do not merely like those products, you adore them. Consider your own emotions and a key insight is revealed: Love is central to business. Nobody talks about it, but it is obvious in hindsight. Lovability: How to Build a Business That People Love and Be Happy Doing It shares what Silicon Valley-based author and Aha! CEO Brian de Haaff knows from a career of founding successful technology companies and creating award-winning products. He reveals the secret to the phenomenal growth of Aha! and the engine that powers lasting customer devotion — a set of principles that he pioneered and named The Responsive Method. Lovability provides valuable lessons and actionable steps for product and company builders everywhere, including:

- Why you should rethink everything you know about building a business
- What a product really is
- The magic of finding what your customers truly desire
- How to turn business strategy and product roadmaps into customer love
- Why you should chase company value, not valuation
- Surveys to measure your company's lovability
- Brian de Haaff has spent the last 20 years focused on business strategy, product management, and bringing disruptive technologies to market. And in preparation for writing this book, he interviewed well-known startup founders, product managers, executives, and CEOs at hundreds of name brand and agile organizations. Their experiences, along with headline-grabbing case studies (both inspiring successes and cautionary tales), will help readers discover how to build something that matters. Much has been written about how entrepreneurs build innovative products and successful businesses, but the author's message is original and refreshing. He convincingly explains that there is a better path forward — a people-first way grounded in love. In a business world that has increasingly emphasized hype over substance and get-big-at-any-cost thinking over profitable and sustainable growth, it's time for a new recipe for company success. Insightful, thought-provoking, and sometimes controversial, Lovability is the book that you turn to when you know there has to be a better way.

Unearthing Business Requirements-Rosemary Hossenlopp PMP 2007-10-01 A Volume of the Business Analysis Essential Library Series Learn how the business analyst works collaboratively with the project manager and other core team members to create plans that customize elicitation activities to the unique needs of the project. The author presents techniques used by successful business analysts and defines key business analysis terms. Examine the principles and practices for pragmatic, effective requirements elicitation and learn how to work collaboratively with project members and other core team members. Discover the steps necessary to create customized elicitation activities for the unique needs of each project.

A Guide to the Business Analysis Body of Knowledge-IIBA 2009 "Business analysis involves understanding how organizations function to accomplish their purposes and defining the capabilities an organization requires to provide products and services to external stakeholders. ... [This guide contains] a framework that describes the business analysis tasks that must be performed in order to understand how a solution will deliver value to the sponsoring organization." - page 3.

The Business Analysis Handbook-Helen Winter 2019-09-03 The business analyst role can cover a wide range of responsibilities, including the elicitation and documenting of business requirements, upfront strategic work, design and implementation phases. Typical difficulties faced by analysts include stakeholders who disagree or don't know their requirements, handling estimates and project deadlines that conflict, and what to do if all the requirements are not priority. The Business Analysis Handbook offers practical solutions to these and other common problems which arise when uncovering requirements or conducting business analysis. Getting requirements right is difficult; this book offers guidance on delivering the right project results, avoiding extra cost and work, and increasing the benefits to the organization. The Business Analysis Handbook provides an understanding of the analyst role and the soft skills required, and outlines industry standard tools and techniques with guidelines on their use to suit the most appropriate situations. Covering methodologies such as Lean Six Sigma and Business Process Model and Notation (BPMN), this essential guide also includes standard templates to save time and ensure nothing important is missed.

Practical J2EE Application Architecture-Nadir Gulzar 2003-06-09 Provides developers with a complete roadmap for building large-scale J2EE applications. You will get a cohesive approach for producing optimal solutions through rigorous life-cycle management techniques from inception through deployment. Includes sample Web site—hosted by the authors—that features real-world demonstrations of all the book's concepts.

Medical Imaging- 2001

Microsoft SQL Server Reporting Services Recipes-Paul Turley 2010-03-18 Learn to design more effective and sophisticated business reports While most users of SQL Server Reporting Services are now comfortable designing and building simple reports, business today demands increasingly complex reporting. In this book, top Reporting Services design experts have contributed step-by-step recipes for creating various types of reports. Written by well-known SQL Server Reporting Services experts, this book gives you the tools to meet your clients' needs

Reducing Process Costs with Lean, Six Sigma, and Value Engineering Techniques-Kim H. Pries 2012-12-13 A company with effective cost reduction activities in place will be better positioned to adapt to shifting economic conditions. In fact, it can make the difference between organizations that thrive and those that simply survive during times of economic uncertainty. Reducing Process Costs with Lean, Six Sigma, and Value Engineering Techniques covers

System Requirements Analysis-Jeffrey O. Grady 2013-09-19 System Requirements Analysis gives the professional systems engineer the tools to set up a proper and effective analysis of the resources, schedules and parts needed to successfully undertake and complete any large, complex project. This fully revised text offers readers the methods for rationally breaking down a large project into a series of stepwise questions, enabling you to determine a schedule, establish what needs to be procured, how it should be obtained, and what the likely costs in dollars, manpower, and equipment will be to complete the project at hand. System Requirements Analysis is compatible with the full range of popular engineering management tools, from project management to competitive engineering to Six Sigma, and will ensure that a project gets off to a good start before it's too late to make critical planning changes. The book can be used for either self-instruction or in the classroom, offering a wealth of detail about the advantages of requirements analysis to the individual reader or the student group. Written by the authority on systems engineering, a founding member of the International Council on Systems Engineering (INCOSE) Complete overview of the basic principles of starting a system requirements analysis program, including initial specifications to define problems, and parameters of an engineering program Covers various analytical approaches to system requirements, including structural and functional analysis, budget calculations, and risk analysis

Information Technology Applications in Industry, Computer Engineering and Materials Science-S.Z. Cai 2013-09-18 Collection of selected, peer reviewed papers from the 2013 3rd International Conference on Materials Science and Information Technology (MSIT 2013), September 14-15, 2013, Nanjing, Jiangsu, China. The 958 papers are grouped as follows: Chapter 1: Materials Science and Engineering; Chapter 2: Mechatronics, Control, Testing, Measurement, Instrumentation, Detection and Monitoring Technologies; Chapter 3: Communication, Computer Engineering and Information Technologies; Chapter 4: Data Processing and Applied Computational Methods and Algorithms; Chapter 5: Power Systems and Electronics, Microelectronics and Embedded Systems, Electric Applications; Chapter 6: Manufacturing, Industry Development and Automation.

Requirement Analysis A Complete Guide-Gerardus Blokdijk 2020-01-09 When are costs are incurred? What information should you gather? Risk identification: What are the possible risk events your organization faces in relation to Requirement Analysis? Is there a clear Requirement analysis case definition? The political context: who holds power? This instant Requirement analysis self-assessment will make you the credible Requirement analysis domain assessor by revealing just what you need to know to be fluent and ready for any Requirement analysis challenge. How do I reduce the effort in the Requirement analysis work to be done to get problems solved? How can I ensure that plans of action include every Requirement analysis task and that every Requirement analysis outcome is in place? How will I save time investigating strategic and tactical options and ensuring Requirement analysis costs are low? How can I deliver tailored Requirement analysis advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdijk. Blokdijk ensures all Requirement analysis essentials are covered, from every angle: the Requirement analysis self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Requirement analysis outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Requirement analysis practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Requirement analysis are maximized with professional results. Your purchase includes access details to the Requirement analysis self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Requirement analysis Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

The Business Analyst's Handbook-Howard Podewva 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).

Requirements Gathering for the New Business Analyst-Lane Bailey 2017-06-11 BOOK DESCRIPTIONHave you recently taken on the role of Business Analyst, but have no clue where to start? Were you thrown into a project and given very little direction? How stressful! The entire project team is depending on you to deliver a critical requirements document that is the foundation for the entire project. But the problem is, you have no little to no training, very little direction, and a very clear time-line of ASAP. What do you do? I've been in this situation, and it is no fun. In the early years of my career when I was a Business Analyst, I had to fumble my way through many projects to learn the tools that I needed to be an effective BA. And then as a manager, I saw many new employees struggle because they weren't properly equipped for the role. But I didn't have the time or budget to send any of them to training. That's when I developed a simple three step process that I taught every new Business Analyst that joined my team. This process allowed me to train all new Business Analysts in ONE DAY, and get them effectively gathering requirements IMMEDIATELY. The feedback that I received was astounding. The employees were more confident in their role, and the stakeholders were very impressed at the skill of the new Business Analysts. But most importantly, they were able to produce and be effective right away. You don't have to struggle any longer. This book will give you the tools and techniques you need to go from Newbie to Pro in one day. You will Learn * The role of the Business Analyst on a project * Systems Analysis and Design techniques * Requirements gathering techniques * Requirements Analysis techniques * How to develop use cases * How to develop a Business Requirements DocumentAs a result: * You will have more confidence in your skills * You will gain credibility with the project team because you will be equipped with the knowledge you need to be an effective team member * You will be able to easily identify who you need to work with to gather requirements * You will be able to deliver a set of requirements that exceeds the expectations of every member of the project team[Is:lsdJ]This book will pay for itself by giving you the confidence needed to take on any software project immediately. What can I say? You NEED this book!Let's get started! Buy Requirements Gathering for the New Business Analyst today to get started on your project now!

Food Protein Analysis-Richard Owusu-Apenten 2002-05-24 Ideal for planning, performing, and interpreting food protein analyses, especially as it relates to the effect of food processing on protei investigation results. Delineates basic research principles, practices, and anticipated outcomes in each of the illustrated protein assays.

Top-Down Network Design-Priscilla Oppenheimer 2010-08-24 Objectives The purpose of Top-Down Network Design, Third Edition, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another department within your own company or an external client, this book provides you with tested processes and tools to help you understand traffic flow, protocol behavior, and internetworking technologies. After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability, scalability, affordability, security, and manageability.

Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium- to large-sized enterprise networks. If you are a network engineer, architect, or technician who has a working knowledge of network protocols and technologies, this book will provide you with practical advice on applying your knowledge to internetwork design. This book also includes useful information for consultants, systems engineers, and sales engineers who design corporate networks for clients. In the fast-paced presales environment of many systems engineers, it often is difficult to slow down and insist on a top-down, structured systems analysis approach. Wherever possible, this book includes shortcuts and assumptions that can be made to speed up the network design process. Finally, this book is useful for undergraduate and graduate students in computer science and information technology disciplines. Students who have taken one or two courses in networking theory will find Top-Down Network Design, Third Edition, an approachable introduction to the engineering and business issues related to developing real-world networks that solve typical business problems. Changes for the Third Edition Networks have changed in many ways since the second edition was published. Many legacy technologies have disappeared and are no longer covered in the book. In addition, modern networks have become multifaceted, providing support for numerous bandwidth-hungry applications and a variety of devices, ranging from smart phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device, and to let them securely collaborate with coworkers, friends, and family. Networks today support voice, video, high-definition TV, desktop sharing, virtual meetings, online training, virtual reality, and applications that we can't even imagine that brilliant college students are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a systematic approach to network design is even more important than ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The third edition features review questions and design scenarios at the end of each chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of Top-Down Network Design also has updated material on the following topics:

- Network redundancy
- Modularity in network designs
- The Cisco SAFE security reference architecture
- The Rapid Spanning Tree Protocol (RSTP)
- Internet Protocol version 6 (IPv6)
- Ethernet scalability options, including 10-Gbps Ethernet and Metro Ethernet
- Network design and management tools

A Guide to the Project Management Body of Knowledge (PMBOK® Guide)-Sixth Edition / Agile Practice Guide Bundle (HINDI)-Project Management Institute 2019-08-05 To support the broadening spectrum of project delivery approaches, PMI is offering A Guide to the Project Management Body of Knowledge (PMBOK® Guide) - Sixth Edition as a bundle with its latest, the Agile Practice Guide. The PMBOK® Guide - Sixth Edition now contains detailed information about agile, while the Agile Practice Guide, created in partnership with Agile Alliance®, serves as a bridge to connect waterfall and agile. Together they are a powerful tool for project managers. The PMBOK® Guide - Sixth Edition - PMI's flagship publication has been updated to reflect the latest good practices in project management. New to the Sixth Edition, each knowledge area will contain a section entitled Approaches for Agile, Iterative and Adaptive Environments, describing how these practices integrate in project settings. It will also contain more emphasis on strategic and business knowledge—including discussion of project management business documents—and information on the PMI Talent Triangle™ and the essential skills for success in today's market. Agile Practice Guide has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) - Sixth Edition, and was developed as the result of collaboration between the Project Management Institute and the Agile Alliance.

Requirements Analysis Risk Third Edition-Gerardus Blokdijk 2019-02-09 Explorations of the frontiers of Requirements analysis Risk will help you build influence, improve Requirements analysis Risk, optimize decision making, and sustain change, what is your approach? How is Requirements analysis Risk data gathered? Are improvement team members fully trained on Requirements analysis Risk? How do you think the partners involved in Requirements analysis Risk would have defined success? What are your best practices for minimizing Requirements analysis Risk project risk, while demonstrating incremental value and quick wins throughout the Requirements analysis Risk project lifecycle? This one-of-a-kind Requirements analysis Risk self-assessment will make you the dependable Requirements analysis Risk domain auditor by revealing just what you need to know to be fluent and ready for any Requirements analysis Risk challenge. How do I reduce the effort in the Requirements analysis Risk work to be done to get problems solved? How can I ensure that plans of action include every Requirements analysis Risk task and that every Requirements analysis Risk outcome is in place? How will I save time investigating strategic and tactical options and ensuring Requirements analysis Risk costs are low? How can I deliver tailored Requirements analysis Risk advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdijk. Blokdijk ensures all Requirements analysis Risk essentials are covered, from every angle: the Requirements analysis Risk self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Requirements analysis Risk outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Requirements analysis Risk practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Requirements analysis Risk are maximized with professional results. Your purchase includes access details to the Requirements analysis Risk self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Requirements analysis Risk Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Writing Secure Code-David LeBlanc 2002-12-04 Keep black-hat hackers at bay with the tips and techniques in this entertaining, eye-opening book! Developers will learn how to padlock their applications throughout the entire development process—from designing secure applications to writing robust code that can withstand repeated attacks to testing applications for security flaws. Easily digested chapters reveal proven principles, strategies, and coding techniques. The authors—two battle-scarred veterans who have solved some of the industry's toughest security problems—provide sample code in several languages. This edition includes updated information about threat modeling, designing a security process, international issues, file-system issues, adding privacy to applications, and performing security code reviews. It also includes enhanced coverage of buffer overflows, Microsoft .NET security, and Microsoft ActiveX development, plus practical checklists for developers, testers, and program managers.

Business Analyst's Mentor Book-Emrah Yavici 2013-07-22 Business Analyst's Mentor Book includes tips and best practices in a broad range of topics like: Business analysis techniques and tools Agile and waterfall methodologies Scope management Change request management Conflict management Use cases UML Requirements gathering and documentation User interface design Usability testing Software testing Automation tools Real-life examples are provided to help readers apply these best practices in their own IT organizations. The book also answers the most frequent questions of business analysts regarding software requirements management.

The Practitioner's Guide to Data Quality Improvement-David Loshin 2010-11-22 The Practitioner's Guide to Data Quality Improvement offers a comprehensive look at data quality for business and IT, encompassing people, process, and technology. It shares the fundamentals for understanding the impacts of poor data quality, and guides practitioners and managers alike in socializing, gaining sponsorship for, planning, and establishing a data quality program. It demonstrates how to institute and run a data quality program, from first thoughts and justifications to maintenance and ongoing metrics. It includes an in-depth look at the use of data quality tools, including business case templates, and tools for analysis, reporting, and strategic planning. This book is recommended for data management practitioners, including database analysts, information analysts, data administrators, data architects, enterprise architects, data warehouse engineers, and systems analysts, and their managers. Offers a comprehensive look at data quality for business and IT, encompassing people, process, and technology. Shows how to institute and run a data quality program, from first thoughts and justifications to maintenance and ongoing metrics. Includes an in-depth look at the use of data quality tools, including business case templates, and tools for analysis, reporting, and strategic planning.

User Stories Applied-Mike Cohn 2004-03-01 Thoroughly reviewed and eagerly anticipated by the agile community, User Stories Applied offers a requirements process that saves time, eliminates rework, and leads directly to better software. The best way to build software that meets users' needs is to begin with "user stories": simple, clear, brief descriptions of functionality that will be valuable to real users. In User Stories Applied, Mike Cohn provides you with a front-to-back blueprint for writing these user stories and weaving them into your development lifecycle. You'll learn what makes a great user story, and what makes a bad one. You'll discover practical ways to gather user stories, even when you can't speak with your users. Then, once you've compiled your user stories, Cohn shows you how to organize them, prioritize them, and use them for planning, management, and testing. User role modeling, understanding what users have in common, and where they differ Gathering stories: user interviewing, questionnaires, observation, and workshops Working with managers, trainers, salespeople and other "proxies" Writing user stories for acceptance testing Using stories to prioritize, set schedules, and estimate release costs Includes end-of-chapter practice questions and exercises User Stories Applied will be invaluable to every software developer, tester, analyst, and manager working with any agile method: XP, Scrum... or even your own home-grown approach.

Business Analysis Methodology Book-Emrah Yavici 2015-07-21 Resource added for the Business Analyst program 101021.

Requirements Analysis a Complete Guide - 2019 Edition-Gerardus Blokdijk 2018-12-20 Have the portability, reliability, usability and maintainability requirements for the system been respected? Have you assessed your reliability and maintainability requirements? How to use models in this context? Who does the analysis? Which items are masked? This powerful Requirements Analysis self-assessment will make you the reliable Requirements Analysis domain master by revealing just what you need to know to be fluent and ready for any Requirements Analysis challenge. How do I reduce the effort in the Requirements Analysis work to be done to get problems solved? How can I ensure that plans of action include every Requirements Analysis task and that every Requirements Analysis outcome is in place? How will I save time investigating strategic and tactical options and ensuring Requirements Analysis costs are low? How can I deliver tailored Requirements Analysis advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdijk. Blokdijk ensures all Requirements Analysis essentials are covered, from every angle: the Requirements Analysis self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Requirements Analysis outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Requirements Analysis practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Requirements Analysis are maximized with professional results. Your purchase includes access details to the Requirements Analysis self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Requirements Analysis Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

R Markdown-Yihui Xie 2018-07-27 R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and its loaders/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tuft handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Grolemond is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse.

Understanding Machine Learning-Shai Shalev-Shwartz 2014-05-19 Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Introduction to Mediation, Moderation, and Conditional Process Analysis, Second Edition-Andrew F. Hayes 2017-10-30 Lauded for its easy-to-understand, conversational discussion of the fundamentals of mediation, moderation, and conditional process analysis, this book has been fully revised with 50% new content, including sections on working with multicategorical antecedent variables, the use of PROCESS version 3 for SPSS and SAS for model estimation, and annotated PROCESS v3 outputs. Using the principles of ordinary least squares regression, Andrew F. Hayes carefully explains procedures for testing hypotheses about the conditions under and the mechanisms by which causal effects operate, as well as the moderation of such mechanisms. Hayes shows how to estimate and interpret direct, indirect, and conditional effects; probe and visualize interactions; test questions about moderated mediation; and report different types of analyses. Data for all the examples are available on the companion website (www.afhayes.com), along with links to download PROCESS. New to This Edition *Chapters on using each type of analysis with multicategorical antecedent variables. *Example analyses using PROCESS v3, with annotated outputs throughout the book. *More tips and advice, including new or revised discussions of formally testing moderation of a mechanism using the index of moderated mediation; effect size in mediation analysis; comparing conditional effects in models with more than one moderator; using R code for visualizing interactions; distinguishing between testing interaction and probing it; and more. *Rewritten Appendix A, which provides the only documentation of PROCESS v3, including 13 new preprogrammed models that combine moderation with serial mediation or parallel and serial mediation. *Appendix B, describing how to create customized models in PROCESS v3 or edit preprogrammed models.

Aspect-Oriented Requirements Engineering-Ana Moreira 2013-11-19 Broadly-scoped requirements such as security, privacy, and response time are a major source of complexity in modern software systems. This is due to their tangled inter-relationships with and effects on other requirements. Aspect-Oriented Requirements Engineering (AORE) aims to facilitate modularisation of such broadly-scoped requirements, so that software developers are able to reason about them in isolation - one at a time. AORE also captures these inter-relationships and effects in well-defined-composition specifications, and, in so doing exposes the causes for potential conflicts, trade-offs, and roots for the key early architectural decisions. Over the last decade, significant work has been carried out in the field of AORE. With this book the editors aim to provide a consolidated overview of these efforts and results. The individual contributions discuss how aspects can be identified, represented, composed and reasoned about, as well as how they are used in specific domains and in industry. Thus, the book does not present one particular AORE approach, but conveys a broad understanding of the aspect-oriented perspective on requirements engineering. The chapters are organized into five sections: concern identification in requirements, concern modelling and composition, domain-specific use of AORE, aspect interactions, and AORE in industry. This book provides readers with the most comprehensive coverage of AORE and the capabilities it offers to those grappling with the complexity arising from broadly-scoped requirements - a phenomenon that is, without doubt, universal across software systems. Software engineers and related professionals in industry, as well as advanced undergraduate and post-graduate students and researchers, will benefit from these comprehensive descriptions and the industrial case studies.

Microscopy and Analysis- 2003

Requirements-led Project Management-Suzanne Robertson 2004 In their previous book, Mastering the Requirements Process, the Robertsons defined Volere - their widely adopted requirements process. In this second book, they look at the outputs from the requirements process and demonstrate how you can take advantage of the all-important links between requirements and project success.

Non-Functional Requirements in Software Engineering-Lawrence Chung 2012-12-06 Non-Functional Requirements in Software Engineering presents a systematic and pragmatic approach to 'building quality into' software systems. Systems must exhibit software quality attributes, such as accuracy, performance, security and modifiability. However, such non-functional requirements (NFRs) are difficult to address in many projects, even though there are many techniques to meet functional requirements in order to provide desired functionality. This is particularly true since the NFRs for each system typically interact with each other, have a broad impact on the system and may be subjective. To enable developers to systematically deal with a system's diverse NFRs, this book presents the NFR Framework. Structured graphical facilities are offered for stating NFRs and managing them by refining and inter-relating NFRs, justifying decisions, and determining their impact. Since NFRs might not be absolutely achieved, they may simply be satisfied sufficiently ('satisfied'). To reflect this, NFRs are represented as 'softgoals', whose interdependencies, such as tradeoffs and synergy, are captured in graphs. The impact of decisions is qualitatively propagated through the graph to determine how well a chosen target system satisfies its NFRs. Throughout development, developers direct the process, using their expertise while being aided by catalogues of knowledge about NFRs, development techniques and tradeoffs, which can be all explored, reused and customized. Non-Functional Requirements in Software Engineering demonstrates the applicability of the NFR Framework to a variety of NFRs, domains, system characteristics and application areas. This will help readers apply the Framework to NFRs and domains of particular interest to them. Detailed treatments of particular NFRs - accuracy, security and performance requirements - along with treatments of NFRs for information systems are presented as specializations of the NFR Framework. Case studies of NFRs for a variety of information systems include credit card and administrative systems. The use of the Framework for particular application areas is illustrated for software architecture as well as enterprise modelling. Feedback from domain experts in industry and government provides an initial evaluation of the Framework and some case studies. Drawing on research results from several theses and refereed papers, this book's presentation, terminology and graphical notation have been integrated and illustrated with many figures. Non-Functional Requirements in Software Engineering is an excellent resource for software engineering practitioners, researchers and students.

Beyond Requirements-Kent J. McDonald 2015-08-29 Satisfy Stakeholders by Solving the Right Problems, in the Right Ways In Beyond Requirements , Kent J. McDonald shows how applying analysis techniques with an agile mindset can radically transform analysis from merely “gathering and documenting requirements” to an important activity teams use to build shared understanding. First, McDonald discusses the unique agile mindset, reviews the key principles underlying it, and shows how these principles link to effective analysis. Next, he puts these principles to work in four wide-ranging and thought-provoking case studies. Finally, he drills down on a full set of techniques for effective agile analysis, using examples to show how, why, and when they work. McDonald’s strategies will teach you how to understand stakeholders’ needs, identify the best solution for satisfying those needs, and build a shared understanding of your solution that persists throughout the product lifecycle. He also demonstrates how to iterate your analysis, taking advantage of what you learn throughout development, testing, and deployment so that you can continuously adapt, refine, and improve. Whether you’re an analysis practitioner or you perform analysis tasks as a developer, manager, or tester, McDonald’s techniques will help your team consistently find and deliver better solutions. Coverage includes Core concepts for analysis: needs/ solutions, outcome/output, discovery/delivery Adapting Lean Startup ideas for IT projects: customer delivery, build-measure-learn, and metrics Structuring decisions, recognizing differences between options and commitments, and overcoming cognitive biases Focusing on value: feature injection, minimum viable products, and minimum marketable features Understanding how analysis flows alongside your project’s lifecycle Analyzing users: mapping stakeholders, gauging commitment, and creating personas Understanding context: performing strategy (enterprise) analysis Clarifying needs: applying decision filters, assessing project opportunities, stating problems Investigating solutions: impact and story mapping, collaborative modeling, and acceptance criteria definition Kent J. McDonald uncovers better ways of delivering value. His experience includes work in business analysis, strategic planning, project management, and product development in the financial services, health insurance, performance marketing, human services, nonprofit, and automotive industries. He has a BS in industrial engineering from Iowa State University and an MBA from Kent State University. He is coauthor of Stand Back and Deliver: Accelerating Business Agility (Addison-Wesley, 2009).

Creating a Software Engineering Culture-Karl Wiegers 2013-07-15 This is the digital version of the printed book (Copyright © 1996). Written in a remarkably clear style, Creating a Software Engineering Culture presents a comprehensive approach to improving the quality and effectiveness of the software development process. In twenty chapters spread over six parts, Wiegers promotes the tactical changes required to support process improvement and high-quality software development. Throughout the text, Wiegers identifies scores of culture builders and culture killers, and he offers a wealth of references to resources for the software engineer, including seminars, conferences, publications, videos, and on-line information. With case studies on process improvement and software metrics programs and an entire part on action planning (called “What to Do on Monday”), this practical book guides the reader in applying the concepts to real life. Topics include software culture concepts, team behaviors, the five dimensions of a software project, recognizing achievements, optimizing customer involvement, the project champion model, tools for sharing the vision, requirements traceability matrices, the capability maturity model, action planning, testing, inspections, metrics-based project estimation, the cost of quality, and much more! Principles from Part 1 Never let your boss or your customer talk you into doing a bad job. People need to feel the work they do is appreciated. Ongoing education is every team member’s responsibility. Customer involvement is the most critical factor in software quality. Your greatest challenge is sharing the vision of the final product with the customer. Continual improvement of your software development process is both possible and essential. Written software development procedures can help build a shared culture of best practices. Quality is the top priority; long-term productivity is a natural consequence of high quality. Strive to have a peer, rather than a customer, find a defect. A key to software quality is to iterate many times on all development steps except coding; Do this once. Managing bug reports and change requests is essential to controlling quality and maintenance. If you measure what you do, you can learn to do it better. You can’t change everything at once. Identify those changes that will yield the greatest benefits, and begin to implement them next Monday. Do what makes sense; don’t resort to dogma.

An evaluation of the federal government’s implementation of the Government Information Locator Service (GILS)-William E. Moen 1997

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