Mastering Software Project Requirements A Framework For Successful Planning Development Alignment

"If the purpose is to create one of the best books on requirements yet written, the authors have succeeded." —Capers Jones It is widely recognized that incorrect requirements account for up to 60 percent of errors in software products, and yet the majority of software development organizations do not have a formal requirements process. Many organizations appear willing to spend huge amounts on fixing and altering poorly specified software, but seem unwilling to invest a much smaller amount to get the requirements right in the first place. Mastering the Requirements Process, Second Edition , sets out an industry-proven process for gathering and verifying requirements with an eye toward today's agile development environments. In this total update of the bestselling guide, the authors show how to discover precisely what the customer wants and needs while doing the minimum requirements work according to the project's level of agility. Features include The Volere requirements process—completely specified, and revised for compatibility with agile environments A specification template that can be used as the basis for your own requirements specifications New agility ratings 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 Iterative requirements gathering leading to faster delivery to the client Checklists to help identify stakeholders, users, nonfunctional requirements, and more Details on gathering and implementing requirements for iterative releases An expanded project sociology section for help with identifying and communicating with stakeholders Strategies for exploiting use cases to determine the best product to build Methods for reusing requirements and requirements patterns Examples showing how the techniques and templates are applied in real-world situations

Here is a complete reference guide to the activities that identify various stages of archival practice. Among the environmental topics to be addressed from a practitioner's standpoint are legal, regulatory, political, economic, organizational culture, professional, social, and ethical influences.

This book constitutes the refereed proceedings of the 16th International Conference on Software Reuse, ICSR 2017, held in Salvador, Brazil, in May 2017. The 8 revised full papers presented together with 3 short papers and 2 keynote presentations were carefully reviewed and selected from 34 submissions. The papers are grouped in topical sections on documentation reuse and repositories; software product lines; variability management and model variants; verification and refactoring for reuse; tools demonstrations; doctorial symposium; tutorials; and workshop.

Mastering Project Time Management, Cost Control, and Quality Management gives managers powerful insights and tools for addressing the "Triple Constraints" that define virtually every project: time, cost, and quality. This book is part of a new series of seven cutting-edge project management guides for both working practitioners and students. Like all books in this series, it offers deep practical insight into the successful design, management, and control of complex modern projects. Using real case studies and proven applications, expert authors show how multiple functions and disciplines can and must be integrated to achieve a successful outcome. Individually, these books focus on realistic, actionable solutions, not theory. Together, they provide comprehensive guidance for working project managers at all levels, including highly-complex enterprise environments. These books also provide indispensable knowledge for anyone pursuing PMI/PMBOK or PRINCE2 certification, or other accreditation in the field.

Mastering Software Project RequirementsA Framework for Successful Planning, Development & AlignmentJ. Ross Publishing

Mastering Project Management Integration and Scope gives managers powerful insights and tools for addressing the most crucial success factor in any project: completely and accurately defining project objectives and deliverables, and transforming your definitions into effective requirements and an integrated project plan. This book is part of a new series of six cutting-edge project management guides for both working practitioners and students. Like all books in this series, it offers deep practical insight into the successful design, management, and control of complex modern projects. Using real case studies and proven applications, expert authors show how multiple functions and disciplines can and must be integrated to achieve a successful outcome. Individually, these books focus on realistic, actionable solutions, not theory. Together, they provide comprehensive guidance for working project managers at all levels, as well as indispensable knowledge for anyone pursuing PMI/PMBOK certification or other accreditation in the field.

Requirements Engineering and Management for Software Development Projects presents a complete guide on requirements for software development including engineering, computer science and management activities. It is the first book to cover all aspects of requirements management in software development projects. This book introduces the understanding of the requirements, elicitation and gathering, requirements analysis, verification and validation of the requirements, establishment of requirements, different methodologies in brief, requirements traceability and change management among other topics. The best practices, pitfalls, and metrics used for efficient software requirements management are also covered. Intended for the professional market, including software engineers, programmers, designers and researchers, this book is also suitable for advanced-level students in computer science or engineering courses as a textbook or reference.

Learn powerful techniques for successfully managing modern projects, programs, and portfolios in any environment, no matter how complex. Mastering Project, Program, and Portfolio Management addresses several make-or-break issues associated with successful project management: organizational structure, linkages between project management and operations, and definitions and interrelationships amongst projects, programs and portfolios. Unlike other books, which address these issues only in passing, this book drills down to offer practical, real-world concepts, in-the-trenches insights, and proven applications. You'll learn how to: Plan projects and strategies to reflect your organization's needs and structures Develop and implement a successful Project Management Office (PMO) Organize projects, programs, and portfolios Systematically maximize the business value of project management This book is part of a new series of six cutting-edge project management guides for both working practitioners and students. Like all books in this series, it offers deep practical insight into the successful design, management, and control of complex modern projects. Using real case studies and proven applications, expert authors show how multiple functions and disciplines can and must be integrated to achieve a successful outcome. Individually, these books focus on realistic, actionable solutions, not theory. Together, they provide comprehensive guidance for working project managers at all levels, as well as indispensable knowledge for anyone pursuing PMI/PMBOK certification or other accreditation in the field.

Develop robust and reusable code using a multitude of design patterns for PHP 7 About This Book Learn about advanced design patterns in PHP 7 Understand enhanced architectural patterns Learn to implement reusable design patterns to address common recurring problems Who This Book Is For This book is for PHP developers who wish to have better organization structure over their code through learning common methodologies to solve architectural problems against a backdrop of learning new functionality in PHP 7. What You Will Learn Recognize recurring problems in your code with Anti-Patterns Uncover object creation mechanisms using Creational Patterns Use Structural design patterns to easily access your code Address common issues encountered when linking objects using the splObserver classes in PHP 7 Achieve a common style of coding with Architectural Patterns Write reusable code for common MVC frameworks such as Zend, Laravel, and Symfony Get to know the best practices associated with design patterns when used with PHP 7 In Detail Design patterns are a clever way to solve common architectural issues that arise during software development. With an increase in demand for enhanced programming techniques and the versatile nature of PHP, a deep understanding of PHP design patterns is critical to achieve efficiency while coding. This comprehensive guide will show you how to achieve better organization structure over your code through learning common methodologies to solve architectural problems. You'll also learn about the new functionalities that PHP 7 has to offer. Starting with a brief introduction to design patterns, you quickly dive deep into the three main architectural patterns: Creational, Behavioral, and Structural popularly known as the Gang of Four patterns. Over the course of the book, you will get a deep understanding of object creation mechanisms, advanced techniques that address issues concerned with linking objects together, and improved methods to access your code. You will also learn about Anti-Patterns and the best methodologies to adopt when building a PHP 7 application. With a concluding chapter on best practices, this book is a complete guide that will equip you to utilize design patterns in PHP 7 to achieve maximum productivity, ensuring an enhanced software development experience. Style and approach The book covers advanced design patterns in detail in PHP 7 with the help of rich code-based examples.

Learn BIM the Revit Way Revit is Autodesk's industry-leading Building Information Modeling (BIM) software, and this Autodesk Official Training Guide thoroughly covers core Revit topics such as modeling, massing, sustainability, and more. It also brings you up to speed on advanced techniques such as using Revit in the cloud and how to go direct to fabrication. Organized by real-world workflows, this book covers the interface, templates, worksharing, modeling and massing, visualization techniques for different industries, sustainability, roofs and floors, stairs and railings, documentation, and much more. This Autodesk Official Training Guide teaches you how to use the leading BIM software and also serves as a study aid for Autodesk's Certified Associate and Certified Professional exams Organized according to actual workflows, the book begins with an explanation of key BIM concepts, familiarizes you with the interface, and then moves into actual application Covers modeling and massing, the Family Editor, visualization techniques for various industries, documentation, annotation and detailing, and how to work with complex walls, roofs, floors, stairs, and railings Companion website features before-and-after tutorial files, so readers can jump in at any point Mastering Autodesk Revit Architecture helps you learn Revit in a context that makes real-world sense.

This book covers the most critical 24 NFRs that are applicable to IT applications and systems. About This Book Explains three stages of nonfunctional requirements, that is, analysis, architecture, and assessment In-depth knowledge of NFR framework and taxonomy that provides guidance around the modelling phase for the NFRs Coverage of 24 critical and pivotal NFRs, including the analysis, architecture, and assessment. Who This Book Is For The primary audience for this title are the gamut of roles starting from IT consultant to chief architects who are responsible to deliver strategic, tactical, and operational engagements for fortune 100 customers worldwide. Nonfunctional requirements are the key to any software / IT program. They cannot be overlooked or ignored. The book provides a comprehensive approach from analysis, architecture, and measurement of nonfunctional requirements. The book includes considerations for bespoke (Java, .Net, and COTS applications). These are applicable to IT applications from various domains. The book outlines the methodology for capturing the NFRs and also describes a framework that can be leveraged by analysts and architects for tackling NFRs for various engagements. The audience for this book include business analysts, enterprise architects, business architects, solution architects, technical architects/designers, domain/security/integration architects, software developers, support engineers and test engineers, technical project managers, project leads/technical leads/technical project managers, and students from the computer science/IT stream What You Will Learn Learn techniques related to the analysis, architecture, and monitoring of NFRs Understand the various tools, techniques, and processes in order to improve the overall quality of the desired outcomes Embrace the best practices of architecting, metrics, and success factors for NFRs Identify the common pitfalls to be avoided and the patterns to leverage Understand taxonomy and framework for NFRs Learn the design guidelines for architecting applications and systems relating to NFRs Abstract different methodologies to analyze and gather NFRs In Detail Non-functional Requirements are key to any software/IT program and cannot be overlooked or ignored. This book provides a comprehensive approach to the analysis, architecture, and measurement of NFRs. It includes considerations for bespoke Java, .NET, and COTS applications that are applicable to IT applications/systems in different domains. The book outlines the methodology for capturing the NFRs and also describes a framework that can be leveraged by analysts and architects for tackling NFRs for various engagements. This book starts off by explaining the various KPIs, taxonomies, and methods for identifying NFRs. Learn the design guidelines for architecting applications and systems relating to NFRs and design principles to achieve the desired outcome. We will then move on to various key tiers/layers and patterns pertaining to the business, database, and integrating tiers. After this, we will dive deep into the topics pertaining to techniques related to monitoring and measurement of NFRs, such as sizing, analytical modeling, and quality assurance. Lastly, we end the book by describing some pivotal NFRs and checklists for the software quality attributes related to the business, application, data, and infrastructure domains. Style and approach The book takes a pragmatic approach, describing various techniques related to the analysis of NFRs, the architecture of NFRs, and assessment of NFRs.

This text provides a practical model for organizational change professionals, senior business analysts, project and program management leaders, and executives to follow in developing and executing any important change initiatives or major enterprise transformation efforts.

This book is an essential guide or foundational toolkit for anyone who is involved in the process of developing, offering or selling any type of product or service. Based on how to surf on the waves of innovation and the principle of "form follows function" (System Architecture), it introduces and connects concepts like Market Understanding, Design Thinking, Design to Value, Modularization and Agility. It introduces readers to the essence of these main frameworks and provides a toolkit that explains both theoretically and practically when and how to utilize which one. The methods and processes described in this book have all been successfully tested in many industries. They apply in today's market context of high uncertainty, complexity and turbulence, where innovation and disruption are essential. Readers will find answers to two fundamental questions: How can we implement an innovation process and environment that are conducive to successful product design? And, if our products fail to appeal to customers, how can we achieve a major turn-around with regard to product development? A wealth of examples and case studies help readers to benefit from the authors' broad professional experience. Further, lessons learned and conceptual summaries provide valuable shortcuts to the methods and tools discussed. For today's CEOs, enabling innovation is one of THE most complex leadership tasks. But innovation is not about theory and nice buzzwords. It's about succeeding in the real world. This 'hands-on' book connects the dots and introduces the reader to some of the most relevant ideas and pragmatic concepts fitting today's business reality. Dr. Robert Neuhauser, Executive VP and Global Head People and Leadership Development, Siemens At the most fundamental level this book brings order to chaos. It sets different and highly relevant design approaches into a complementary picture, rather than presenting them as competing ways of solving the same problem. Product designers, managers,

consultants, scholars and students will surely have this valuable book within reach on a daily basis. Olivier L. de Weck, Ph.D – MIT Professor of Aeronautics and Astronautics and Engineering Systems, Editor-in-Chief Systems Engineering

This C++ Programming book gives a good start and complete introduction for C++ Programming for Beginner's. It has been comprehensively updated for the long-awaited C++Beginner's from the Best selling Programming Author Harry H Chaudhary. The primary aim of this book is to help the reader understand how the facilities offered by C++ support key programming techniques. The aim is to take the reader far beyond the point where he or she gets code running primarily by copying examples and emulating programming styles from other languages. Anyone can learn C++ Programming through This Book I promise. Most Imp. Feature of this book is-- 1) Learn C++ without fear, 2) This book is for everyone, 3) 160 End of book examples, 4) 200 Practical Codes, 5) At last it goes to Expert level topics such as: *Software Design & Development Using C++*, 6) 101 Rules, for Software Design & Development using C++ @ the end of this book. 7) Very Easy Definitions for each topic with code *examples and output. While reading this book it is fun and easy to read it. This book is best suitable for first time C++ readers, Covers all fast track topics of C++ for all Computer Science students and Professionals. This book introduces standard C++ and the key programming and design techniques supported by C++. Standard C++ is a far more powerful and polished language than the version of C++ introduced by the first edition of this book. This book presents every major C++ language feature and the standard library. It is organized around language and library facilities. However, features are presented in the context of their use. That is, the focus is on the language as the tool for design and programming rather than on the language in itself. This book demonstrates key techniques that make C++ effective and teaches the fundamental concepts necessary for mastery. As everyone knows that Author Harry is basically known for his Easy way- Programming without fear technique. His book presents world's easiest definitions and codes for beginners. || Inside Chapters. || 1 (Introduction To C++ Programming) 2 (Inside The C++ Language) 3 (Pointers & References) 4 (Understanding Functions) 5 (Structure-Unions-Enumerated Data Types) 6 (Object Oriented Programming Concept) 7 (C++ Classes and Objects) 8 (Constructors and Destructors) 9 (Operator Overloading) 10 (Console Input / Output Streams) 11 (Inheritance Concept in C++) 12 (Virtual Functions-Polymorphism Concept) 13 (Templates Concept In C++) 14 (Exception Handling In C++) 15 (New Features of ANSI C++ Standard) 16 (Working With Files) 17 (String Classes') 18 (Your Brain On C++ (160 Multiple Choice Questions)) 19 (Your Brain On C++ (100 Practical Programming Questions)) 20 (Software Design & Development Using C++)

"This book provides a "how to" approach to mastering business analysis work. It will help build the skill sets of new analysts and all those currently doing analysis work, from project managers to project team members such as systems analysts, product managers and business development professionals, to the experienced business analyst. It also covers the tasks and knowledge areas for the new 2008 v.2 of The Guide to the Business Analysis Body of Knowledge (BABOK) and will help prepare business analysts for the HBA CBAP certification exam."--BOOK JACKET.

The LNCS Transactions on Foundations for Mastering Change, FoMaC, aims to establish a forum for formal-methods-based research, dealing with the nature of today's agile system development, which is characterized by unclear premises, unforeseen change, and the need for fast reaction, in a context of hard-to-control frame conditions, such as third-party components, network problems, and attacks. Submissions are evaluated according to these goals. This book, the first volume in the series, contains contributions by the members of the editorial board. These contributions indicate the envisioned style and range of papers of topics covered by the transactions series. They cross-cut various traditional research directions and are characterized by a clear focus on change.

"This book is insightful and thought-provoking for even the most seasoned SAP BW individual." —Richard M. Dunning, Chair, American SAP Users Group Written by the leading experts in the field, this comprehensive guide shows you how to implement the SAP Business Information Warehouse (BW) and create useful applications for business analysis of company-wide data. You'll quickly learn how to design, build, analyze, and administer the data and information in the SAP BW component. The authors present the material in a way that reflects the process an organization goes through during a software implementation. They begin with an introduction to the fundamentals of data warehousing and business intelligence, helping you determine if SAP BW is right for your organization. The book then focuses on the business content and options available when trying to deliver value from the data stored in the SAP BW. And it includes a methodology for implementing the BW, such as data modeling and techniques for capturing and transforming data. With this book, you'll discover the options available in SAP BW 3.0 and explore a new way to drive business performance. It will show you how to: Tackle such challenges as eliminating poor data quality Develop an information model in order to properly deploy SAP BW Utilize ETL, data storage, information access, analysis, and presentation services Schedule, monitor, archive, and troubleshoot data loads Effectively plan and manage the performance of a data warehouse The companion Web site provides useful guides and templates for configuring your system, industry case studies, and additional updates.

Empower Your Agile Software Product Development Scrum Teams with Advanced Scrum Techniques KEY FEATURES ? Provides a complete overview of various Agile Frameworks, including the Scrum Framework. ? Covers numerous scenario-based examples and an in-depth explanation for Scrum Malfunctions and various Advanced Scrum Add-ons/Techniques. ? Includes visual illustrations for the Scrum-based Agile Way of Working and its associated various Advanced Scrum Add-ons/Techniques. ? Highlights real-time use-cases and experiences for various Advanced Scrum Add-ons/Techniques. DESCRIPTION This book emphasizes on the Advanced Scrum Add-ons/Techniques to be explored, applied, and utilized by the Scrum Teams to establish and improve a fully functional Scrum-based Agile Way of Working. Reading this book not only helps the Scrum Teams to encourage their overall responsibility, accountability, and ownership, but also guides them to become High-Performing Scrum Teams. The book contains numerous real-time use-cases and visual illustrations for various concepts of Scrum Framework, Scrum-based Agile Way of Working, and Advanced Scrum Add-ons/Techniques. It also gives an overview of Scrum Malfunctioning and various ways to prevent and correct it. This book acts as a handy reference for the Scrum Teams to make use of Advanced Scrum Add-ons/Techniques. These techniques include the overall Structure and Alignment of Scrum Teams, Scrum Roles, Working Agreements of Scrum Teams, Effective and Efficient Scrum Artifacts Management, Relative Estimation, Scrum Events, Advanced Engineering Practices, Technical Agility, Scrum Metrics, Scaling Scrum, and few other aspects of Scrum-based Agile Way of Working. After reading this book, the readers can look out for any malfunctions present within their Scrum Teams and apply the applicable Advanced Scrum Add-ons/Techniques to address such malfunctions. By applying these techniques, they can also address the scope for a continuous improvement under the Scrum-based Agile Way of Working of their Scrum Teams. WHAT YOU WILL LEARN ? Identify Scrum Malfunctions in Scrum Teams along with various preventive and corrective measures. ?

Adopt Advanced Scrum Add-ons/Techniques and Best Practices for Scrum Roles, Scrum Artifacts, and Scrum Events. ? Learn to improvise the Structuring, Alignment, Collaboration, Communication, and Working Agreements of Scrum Teams. ? Utilize Advanced Engineering Practices to improve the Technical Agility of Scrum Teams. ? Measure Productivity, Quality, Competency, and Performance of Scrum Teams using Scrum Metrics. ? Explore Scaling Scrum approaches and the new Developments of Scrum Guide 2020. WHO THIS BOOK IS FOR This book is for Agile Enthusiasts, Agile Coaches, Scrum Practitioners, Scrum Masters, Product Owners, and for the Agile Software Product Development Scrum Teams having a basic know-how of the Scrum Framework and who want to implement various Advanced Techniques/Best Practices of the Scrum Framework to boost their Organizational Agility. TABLE OF CONTENTS 1. Fundamentals of Agile Software Development, Delivery, and Way of Working 2. Agile Frameworks 3. Overview of the Scrum Framework 4. Scrum Malfunctioning and Understanding the need for Advanced Scrum Add-ons 5. Introduction to Advanced Scrum Add-ons 6. Add-ons for Structuring, Collaboration, and Communication within Scrum Teams 7. Add-ons for Scrum Roles and Working Agreement within Scrum Teams 8. Add-ons for Effective and Efficient Product Backlog Management 9. Add-ons for Effective and Efficient Relative Estimation 10. Add-ons for Scrum Events 11. Add-ons for Advanced Engineering Practices and Technical Agility 12. Add-ons for Effective and Efficient Scrum Metrics 13. Add-ons for Scaling Scrum 14. Additional Advanced Scrum Add-ons 15. A Quick Reflection on Scrum Guide 2020

Your answer to the software project management gap The Complete Software Project Manager: From Planning to Launch and Beyond addresses an interesting problem experienced by today's project managers: they are often leading software projects, but have no background in technology. To close this gap in experience and help you improve your software project management skills, this essential text covers key topics, including: how to understand software development and why it is so difficult, how to plan a project, choose technology platforms, and develop project specifications, how to staff a project, how to develop a budget, test software development progress, and troubleshoot problems, and what to do when it all goes wrong. Real-life examples, hints, and management tools help you apply these new ideas, and lists of red flags, danger signals, and things to avoid at all costs assist in keeping your project on track. Companies have, due to the nature of the competitive environment, been somewhat forced to adopt new technologies. Oftentimes, the professionals leading the development of these technologies do not have any experience in the tech field—and this can cause problems. To improve efficiency and effectiveness, this groundbreaking book offers guidance to professionals who need a crash course in software project management. Review the basics of software project management, and dig into the more complicated topics that guide you in developing an effective management approach Avoid common pitfalls by perusing red flags, danger signals, and things to avoid at all costs Leverage practical roadmaps, charts, and step-by-step processes Explore real-world examples to see effective software project management in action The Complete Software Project Manager: From Planning to Launch and Beyond is a fundamental resource for professionals who are leading software projects but do not have a background in technology.

Configure and extend Jenkins to architect, build, and automate efficient software delivery pipelines About This Book Configure and horizontally scale a Jenkins installation to support a development organization of any size Implement Continuous Integration, Continuous Delivery, and Continuous Deployment solutions in Jenkins A step-by-step guide to help you get the most out of the powerful automation orchestration platform that is Jenkins Who This Book Is For If you are a novice or intermediate-level Jenkins user who has used Jenkins before but are not familiar with architecting solutions and implementing it in your organization, then this is the book for you. A basic understanding of the core elements of Jenkins is required to make the best use of this book. What You Will Learn Create and manage various types of build jobs, and implement automation tasks to support a software project of any kind Get to grips with the automated testing architecture, and scalable automated testing techniques Facilitate the delivery of software across the SDLC by creating scalable automated deployment solutions Manage scalable automation pipelines in Jenkins using the latest build, test, and deployment strategies Implement a scalable master / slave build automation platform, which can support Windows, Mac OSX, and Linux software solutions Cover troubleshooting and advanced configuration techniques for Jenkins slave nodes Support a robust build and delivery system by implementing basic infrastructure as code solutions in configuration management tools such as Ansible In Detail With the software industry becoming more and more competitive, organizations are now integrating delivery automation and automated quality assurance practices into their business model. Jenkins represents a complete automation orchestration system, and can help converge once segregated groups into a cohesive product development and delivery team. By mastering the Jenkins platform and learning to architect and implement Continuous Integration, Continuous Delivery, and Continuous Deployment solutions, your organization can learn to outmanoeuvre and outpace the competition. This book will equip you with the best practices to implement advanced continuous delivery and deployment systems in Jenkins. The book begins with giving you high-level architectural fundamentals surrounding Jenkins and Continuous Integration. You will cover the different installation scenarios for Jenkins, and see how to install it as a service, as well as the advanced XML configurations. Then, you will proceed to learn more about the architecture and implementation of the Jenkins Master/Save node system, followed by creating and managing Jenkins build jobs effectively. Furthermore, you'll explore Jenkins as an automation orchestration system, followed by implementing advanced automated testing techniques. The final chapters describe in depth the common integrations to Jenkins from third-party tools such as Jira, Artifactory, Amazon EC2, and getting the most out of the Jenkins REST-based API. By the end of this book, you will have all the knowledge necessary to be the definitive resource for managing and implementing advanced Jenkins automation solutions for your organization. Style and approach This book is a step-by-step guide to architecting and implementing automated build solutions, automated testing practices, and automated delivery methodologies. The topics

covered are based on industry-proven techniques, and are explained in a simple and easy to understand manner.

This book is a concise step-by-step guide to building and establishing the frameworks and models for the effective management and development of software requirements. It describes what great requirements must look like and who the real audience is for documentation. It then explains how to generate consistent, complete, and accurate requirements in exacting detail following a simple formula across the full life cycle from vague concept to detailed design-ready specifications. Mastering Software Project Requirements will enable business analysts and project managers to decompose high-level solutions into granular requirements and to elevate their performance through due diligence and the use of better techniques to meet the particular needs of a given project without sacrificing quality, scope, or project schedules. J. Ross Publishing offers an add-on at a nominal cost — Downloadable, customizable tools and templates ready for immediate implementation.

The widespread deployment of millions of current and emerging software applications has placed software economic studies among the most critical of any form of business analysis. Unfortunately, a lack of an integrated suite of metrics makes software economic analysis extremely difficult. The International Function Point Users Group (IFPUG), a nonprofit and member-governed organization, has become the recognized leader in promoting the effective management of application software development and maintenance activities. The IFPUG Guide to IT and Software Measurement brings together 52 leading software measurement experts from 13 different countries who share their insights and expertise. Covering measurement programs, function points in measurement, new technologies, and metrics analysis, this volume: Illustrates software measurement's role in new and emerging technologies Addresses the impact of agile development on software measurement Presents measurement as a powerful tool for auditing and accountability Includes metrics for the CIO Edited by IFPUG's Management and Reporting Committee, the text is useful for IT project managers, process improvement specialists, measurement professionals, and business professionals who need to interact with IT professionals and participate in IT decision-making. It includes coverage of cloud computing, agile development, quantitative project management, process improvement, measurement as a tool in accountability, project ROI measurement, metrics for the CIO, value stream mapping, and benchmarking.

"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

Master the skills required to effectively use Cucumber BDD which simplifies Agile development and fast-paced time-to-market KEY FEATURES ? A step-by-step explanation of each component of the Cucumber framework. ? Expert coverage on speeding up the implementation of the Cucumber framework. ? Includes Parallel Execution, Cloud Testing, Explore Gherkin, and many more. DESCRIPTION In this book, readers will learn everything they need to know about Behavior-Driven Development (BDD) and a framework used for automation testing for BDD. The book is divided into three sections. The first section covers the building blocks of Cucumber such as Feature files, Step Definition classes, and Runner classes, among other things. These will serve as the building blocks for becoming more familiar with Cucumber. The second section covers the Page Object design pattern and Page Factories, both of which are useful in developing robust frameworks. The final section demonstrates Cucumber's integration with TestNG and Maven. We will be putting each Maven build in Jenkins and configuring Jenkins to trigger automatically when a development build is completed. After reading this book, the test engineer will understand the concept of incorporating Cucumber as a BDD framework into his testing. As a result, he will be able to streamline the testing and bug detection processes. WHAT YOU WILL LEARN ? Understand the fundamentals of Test-Driven Development and Behavior-Driven Development. ? Investigate Cucumber's building blocks such as Feature Files and Step Definition Files. ? Learn the Base Class and inheritance concept within the Page Object Model Framework. ? Create a TestNG XML that calls the test runner class. ? Practice triggering POM xml testing. WHO THIS BOOK IS FOR This book is aimed at individuals who have a firm grasp of the fundamentals of Java and are interested in improving their knowledge of the BDD framework. TABLE OF CONTENTS Section 1: Understanding the Cucumber framework Chapter 1: Introduction to Behavior-Driven Development Chapter 2: Understanding Feature Files Chapter 3: Understanding Step Definition files Chapter 4: Learning about the TestRunner Section 2: Learning the Page

Object Design Pattern Chapter 5: Understanding the Page Object Model and Creating Page Objects Chapter 6: Understanding Page Factories and Creating Page Factories Section 3: Integration with TestNG, Maven, and Jenkins Chapter 7: Configuring the TestNG Framework Chapter 8: Configuring Maven and Learning about POM.xml Chapter 9: POM.xml Execution from Eclipse and Command Line Chapter 10: Configuring POM.xml to Trigger TestNG xml Chapter 11: Configuring the Runner Class for Cucumber Reporter Plugin Chapter 12: Reporting Using Extent Reports Chapter 13: Parallel Execution Using Selenium Grid Chapter 14: Integration with Jenkins

Learn how to use Zoho Creator effectively to benefit your business. This book takes you through a number of real-life scenarios and teaches you how to use Zoho Creator to create solutions for your business, with no technical background needed and with little to no coding required. Sound too good to be true? Not with Zoho Creator. With the help of this book you can create a fully-functional cloud-based app that manages your company information, is elegant to use, and cost-effective to maintain. Get started today. Technology makes our lives easier and there are a large number of resources on offer to help with various tasks, including managing business information. With all the tools, apps, and services to choose from, it is still a daunting and often expensive undertaking for businesses to create solutions that fit their specific requirements. Mastering Zoho Creator will guide you through all of this. What You'll Learn Build Zoho Creator applications properly from the ground up Design with the user in mind Design with the data in mind Create and launch real world business applications, such as real estate management system Integrate your app with external tools and services Extend the capabilities of other Zoho offerings such as CRM Add advanced features by coding in Deluge scripting language Who This Book Is For Small business owners and solopreneurs who want to create business applications and solution to solve their day-to-day problems without the need for prior technical knowledge, coding, or the help of programmers and expensive external consultants. Solution providers and consultants who want to learn the ins and outs of Zoho tools and create world-class business applications for their clients quickly and efficiently.

This volume constitutes the refereed proceedings of the 20th EuroSPI conference, held in Dundalk, Ireland, in June 2013. The 31 revised papers presented in this volume were carefully reviewed and selected. They are organized in topical sections on SPI Safety and Regulation Issues; SPI Lifecycle and Models; SPI Quality and Testing Issues; SPI Networks and Teams; SPI and Reference Models; SPI Implementation; Agile organisations and an agile management process group; Managing Diversity and Innovation; SPI and Measurement; Risk Management and Functional Safety Standards.

Master New Skills in AutoCAD and AutoCAD LT with this Best-Selling Guide Every year, Mastering AutoCAD appears at the top of the AutoCAD book sales charts because of the comprehensive instruction and concise explanations found within. The expert authors the newest edition continue that tradition of excellence in Mastering AutoCAD 2021 and AutoCAD LT 2021, the leading reference and tutorial offering a thorough treatment of AutoCAD tools, functions, and techniques. You'll learn the most straightforward ways to tackle design tasks with the accompanying real-world examples, downloadable project files, and step-by-step instructions. The book covers CAD interface basics, drafting tools, how to use hatches, fields, and tables, and advanced skills like attributes, dynamic bocks, drawing curves, and solid fills. It also helps you prepare for Autodesk AutoCAD certification. Coverage includes: Creating and developing AutoCAD drawings Drawing curves and applying solid fills Effectively using hatches, fields, and tables Manipulating dynamic blocks and attributes Applying 3D modeling and imaging techniques Customizing and integrating your AutoCAD software Mastering interface basics and drafting tools Organizing objects with blocks and groups Selecting objects and editing with grips Displaying object properties Design a Wide Variety of Architectural Projects Effectively use Hatches, Tables, and Fields Use 3D Modeling and Imaging Configure Default Template Settings and Custom Styles Prepare for the Autodesk AutoCAD Certification Exams

The book is organized around basic principles of software project management: planning and estimating, measuring and controlling, leading and communicating, and managing risk. Introduces software development methods, from traditional (hacking, requirements to code, and waterfall) to iterative (incremental build, evolutionary, agile, and spiral). Illustrates and emphasizes tailoring the development process to each project, with a foundation in the fundamentals that are true for all development methods. Topics such as the WBS, estimation, schedule networks, organizing the project team, and performance reporting are integrated, rather than being relegating to appendices. Each chapter in the book includes an appendix that covers the relevant topics from CMMI-DEV-v1.2, IEEE/ISO Standards 12207, IEEE Standard 1058, and the PMI® Body of Knowledge. (PMI is a registered mark of Project Management Institute, Inc.)

Good requirements do not come from a tool, or from a customer interview. They come from a repeatable set of processes that take a project from the early idea stage through to the creation of an agreed-upon project and product scope between the customer and the developer. From enterprise analysis and planning requirements gathering to documentation, Determining Project Requirements, Second Edition: Mastering the BABOK® and the CBAP® Exam covers the entire business analysis cycle as well as modeling techniques. Aligned with the International Institute of Business Analysis' (IIBA) Business Analysis Body of Knowledge 2.0® (BABOK® Guide 2.0), the second edition of this popular reference provides readers with a complete and up-to-date resource for preparing to take the Certified Business Analysis Professional (CBAP®) examination. It also: Presents helpful techniques, tools, best practices, and templates to help readers improve the requirements gathering processes within their organization Contains exercises, sample solutions, and a case study that illustrate how to deal with the various situations that might be encountered in the requirements gathering process Supplies a broad overview of a multitude of business analysis issues Includes two sample business requirements documents—one is a comprehensive template, provided courtesy of ESI International, the second is a simpler template suitable for smaller projects The book covers all of the BABOK® knowledge areas and features new preparatory sections for the

CBAP® exam that include 300 questions. It examines data modeling, requirements modeling techniques, process modeling, and hybrid techniques. With its many examples, use cases, and business requirements document templates, this book is the ideal self-study guide for practitioners. The combination of theory, activities, exercises, solutions, case study, and exam questions also makes it suitable for business analysis students.

In previous years, setting up IT infrastructure involved just the preparation of the data center. It has become much more complex and evolved today. The infrastructure includes not only the data center facility, but also the entire organization by providing internet connectivity to customers, vendors, and company executives on the move. Mastering IT Project Management is the first book to detail how to create IT infrastructure rather than simply describe how to manage the IT function or software development. This unique and comprehensive reference covers all aspects needed to successfully manage this type of project in an organization. J. Ross Publishing offers an add-on at a nominal cost — Downloadable, customizable tools and templates ready for immediate implementation.

"...the authors provide very sound and realistic advice for the types of projects envisaged, not necessarily only IT projects. For readers in senior positions, the book provides a good read and actionable advice and templates for advancing the cause of the enterprise at its upper levels. After all, as the authors observe, 'The next decade of digital business will see continued pressure for organizations to react quickly to changing conditions in the economy, market, and competition'." —R. Max Wideman, Fellow, PMI Every year technology projects face hard decisions about how to mitigate risk and address challenges as teams work on creating useful solutions to deliver promised business value. Those decisions impact scope at every step and help to evolve it until the final product is delivered and implemented. Scope can longer be set in stone! This book will help project teams understand how and when scope changes and evolves as a part of a living-development process by answering the ultimate question: "Are we doing the right things the right way?" Going Beyond the Waterfall explains how to define scope at the outset of a project. It provides a solid model for predicting and managing solution scope across a project life cycle where the decisions and actions of every team member contribute to that evolutionary process. In addition, it identifies the impacts that key tasks and activities will have on scope and how each can be managed effectively to prevent unnecessary scope creep and reduce run-away projects.

Project management software.

The only book on Autodesk's popular and powerful architectural project collaboration software This Autodesk Official Training Guide is the perfect detailed reference and tutorial for the powerful Navisworks software. You'll quickly learn how to use Navisworks to design, review, and collaborate while saving time, meeting budgets, and working efficiently. Covering the entire project design workflow, this book is crammed with detailed how-to instruction; real-world examples; and tips, tricks, and expertise gleaned from the expert author team. Discover how to work with more than 60 file formats, create a single 3D model, navigate and edit it, find design problems with Clash Detection, visualize schedules, and much more in this jam-packed guide. Covers all the Navisworks features in Simulate, Manage, and Freedom Explains Navisworks file types and all of the 60+ other supported file types Shows you how to navigate around a 3D model and enable snap shots and animation Addresses using Clash Detection to test and find problems, optimizing and visualizing schedules using the TimeLiner 4D simulation tool, and more Helps you create impressive visualizations and walkthroughs with lighting, effects, and textures Includes coverage of advanced tools and customizing Navisworks with scripts With an expert author team, Mastering Autodesk Navisworks 2013 is your essential guide to getting the very most out of the powerful Navisworks collaboration and design review software.

Good requirements do not come from a tool, or from a customer interview. They come from a repeatable set of processes that take a project from the early idea stage through to the creation of an agreed-upon project and product scope between the customer and the developer.From enterprise analysis and planning requirements gathering to documentation,

This book is designed to help project managers with a traditional, plan-driven project management background understand the challenges of implementing agile and to develop a more adaptive project management approach. Content is organized into 5 sections: fundamental of agile, agile processes and tools, making agile work for business, implementing agile at the enterprise level, and case studies. It can be used to study for PMI's newly founded ACP exam.

Previous edition: Mastering Autodesk Revit architecture 2014 / James Vandezande, Eddy Krygiel, Phil Read. Indianapolis, Ind.: Sybex, 2013.

This comprehensive reference on software development quality assurance addresses all four dimensions of quality: specifications, design, construction and conformance. It focuses on quality from both the micro and macro view. From a micro view, it details the aspect of building-in quality at the component level to help ensure that the overall deliverable has ingrained quality. From a macro view, it addresses the organizational level activities that provide an environment conducive to fostering quality in the deliverables as well as developing a culture focused on quality in the organization. Mastering Software Quality Assurance also explores a process driven approach to quality, and provides the information and guidance needed for implementing a process quality model in your organization. It includes best practices and valuable tools and techniques for software developers.Key Features • Provides a comprehensive, inclusive view of software quality • Tackles the four dimensions of quality as applicable to software development organizations • Offers unique insights into achieving quality at the component level • Deals comprehensively with all aspects of measuring software quality • Explores process quality from the standpoint of implementation rather than from the appraiser/assessor point of view • Delivers a bird's eye view of the ISO and CMMI models, and describes necessary steps for attaining conformance to those models

This unique text provides a holistic systems approach to project portfolio management which includes people, processes, tools, and techniques that work synergistically to produce portfolio decisions with the best chance of success. Accompanied by decision support software and advanced decision making techniques, it guides readers step-by-step through the entire project portfolio management process. This professional guide is also ideal for executive continuing education programs, and as a primary text for graduate level academic courses.