

# Specification Document Example

Between the high-level concepts of business intelligence and the nitty-gritty instructions for using vendors' tools lies the essential, yet poorly-understood layer of architecture, design and process. Without this knowledge, Big Data is belittled – projects flounder, are late and go over budget. Business Intelligence Guidebook: From Data Integration to Analytics shines a bright light on an often neglected topic, arming you with the knowledge you need to design rock-solid business intelligence and data integration processes. Practicing consultant and adjunct BI professor Rick Sherman takes the guesswork out of creating systems that are cost-effective, reusable and essential for transforming raw data into valuable information for business decision-makers. After reading this book, you will be able to design the overall architecture for functioning business intelligence systems with the supporting data warehousing and data-integration applications. You will have the information you need to get a project launched, developed, managed and delivered on time and on budget – turning the deluge of data into actionable information that fuels business knowledge. Finally, you'll give your career a boost by demonstrating an essential knowledge that puts corporate BI projects on a fast-track to success. Provides practical guidelines for building

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successful BI, DW and data integration solutions. Explains underlying BI, DW and data integration design, architecture and processes in clear, accessible language. Includes the complete project development lifecycle that can be applied at large enterprises as well as at small to medium-sized businesses. Describes best practices and pragmatic approaches so readers can put them into action. Companion website includes templates and examples, further discussion of key topics, instructor materials, and references to trusted industry sources.

Writing Great Specifications Using Specification by Example and Gherkin  
Simon and Schuster

Summary Writing Great Specifications is an example-rich tutorial that teaches you how to write good Gherkin specification documents that take advantage of the benefits of specification by example. Foreword written by Gojko Adzic. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology The clearest way to communicate a software specification is to provide examples of how it should work. Turning these story-based descriptions into a well-organized dev plan is another matter. Gherkin is a human-friendly, jargon-free language for documenting a suite of examples as an executable specification. It fosters efficient collaboration between business and dev teams, and it's an excellent

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foundation for the specification by example (SBE) process. About the Book Writing Great Specifications teaches you how to capture executable software designs in Gherkin following the SBE method. Written for both developers and non-technical team members, this practical book starts with collecting individual feature stories and organizing them into a full, testable spec. You'll learn to choose the best scenarios, write them in a way that anyone can understand, and ensure they can be easily updated by anyone.management. What's Inside Reading and writing Gherkin Designing story-based test cases Team Collaboration Managing a suite of Gherkin documents About the Reader Primarily written for developers and architects, this book is accessible to any member of a software design team. About the Author Kamil Nicieja is a seasoned engineer, architect, and project manager with deep expertise in Gherkin and SBE. Table of contents Introduction to specification by example and Gherkin PART 1 - WRITING EXECUTABLE SPECIFICATIONS WITH EXAMPLES The specification layer and the automation layer Mastering the Given-When-Then template The basics of scenario outlines Choosing examples for scenario outlines The life cycle of executable specifications Living documentation PART 2 - MANAGING SPECIFICATION SUITES Organizing scenarios into a specification suite Refactoring features into abilities and business needs Building

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a domain-driven specification suite Managing large projects with bounded contexts

The Resource Description Framework (RDF) is a structure for describing and interchanging metadata on the Web--anything from library catalogs and worldwide directories to bioinformatics, Mozilla internal data structures, and knowledge bases for artificial intelligence projects. RDF provides a consistent framework and syntax for describing and querying data, making it possible to share website descriptions more easily. RDF's capabilities, however, have long been shrouded by its reputation for complexity and a difficult family of specifications. Practical RDF breaks through this reputation with immediate and solvable problems to help you understand, master, and implement RDF solutions. Practical RDF explains RDF from the ground up, providing real-world examples and descriptions of how the technology is being used in applications like Mozilla, FOAF, and Chandler, as well as infrastructure you can use to build your own applications. This book cuts to the heart of the W3C's often obscure specifications, giving you tools to apply RDF successfully in your own projects. The first part of the book focuses on the RDF specifications. After an introduction to RDF, the book covers the RDF specification documents themselves, including RDF Semantics and Concepts and Abstract Model

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specifications, RDF constructs, and the RDF Schema. The second section focuses on programming language support, and the tools and utilities that allow developers to review, edit, parse, store, and manipulate RDF/XML. Subsequent sections focus on RDF's data roots, programming and framework support, and practical implementation and use of RDF and RDF/XML. If you want to know how to apply RDF to information processing, Practical RDF is for you. Whether your interests lie in large-scale information aggregation and analysis or in smaller-scale projects like weblog syndication, this book will provide you with a solid foundation for working with RDF.

You may be wondering if business analysis is the right career choice, debating if you have what it takes to be successful as a business analyst, or looking for tips to maximize your business analysis opportunities. With the average salary for a business analyst in the United States reaching above \$90,000 per year, more talented, experienced professionals are pursuing business analysis careers than ever before. But the path is not clear cut. No degree will guarantee you will start in a business analyst role. What's more, few junior-level business analyst jobs exist. Yet every year professionals with experience in other occupations move directly into mid-level and even senior-level business analyst roles. My promise to you is that this book will help you find your best path forward into a business

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analyst career. More than that, you will know exactly what to do next to expand your business analysis opportunities.

Author Linda Timms goes beyond the standard consulting guide to bring you constructive reliable advice for delivering effective, complete, professional functional specs on time. Filled with plain English, real-world examples, hints and tips, *SAP: How to Write a Report Functional Specification* provides the secrets you need to make a daunting task achievable. Whether you are a SAP project team member seconded from the business, unsure where to start with documenting business requirements a support analyst dealing with change requests and new requirements an offshore analyst/consultant wanting to up your game, get recognition for top quality work, and stand out from the crowd anyone fresh out of a SAP academy or training course, wanting to transition smoothly into a valuable project team member a graduate with one of the big management consulting firms wanting focussed reliable advice to help build your consulting career a junior consultant wanting to make a name for yourself as a professional productive "good" SAP resource an experienced consultant wanting to refresh your knowledge and maybe kick some bad habits a business analyst looking to move into the SAP arena a manager or team lead tasked with reviewing and signing off functional specs a project manager wanting to bring in best practices a

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technical analyst wanting to understand the functional side of SAP requirements  
SAP: How to Write a Report Functional Specification is a comprehensive guide, including a free downloadable functional specification template that will have you producing polished, high-caliber, valuable report specifications in no time!  
SYSTEMS ANALYSIS AND DESIGN, TENTH EDITION offers a practical, visually appealing approach to information systems development. Throughout the book, real-world case studies emphasize critical thinking and IT skills in a dynamic, business-related environment. The new Tenth Edition will help prepare students for success in today's intensely competitive business world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Authors Jim Jeffers and James Reinders spent two years helping educate customers about the prototype and pre-production hardware before Intel introduced the first Intel Xeon Phi coprocessor. They have distilled their own experiences coupled with insights from many expert customers, Intel Field Engineers, Application Engineers and Technical Consulting Engineers, to create this authoritative first book on the essentials of programming for this new architecture and these new products. This book is useful even before you ever touch a system with an Intel Xeon Phi coprocessor. To ensure that your applications run at maximum efficiency, the authors emphasize key techniques for programming any modern parallel computing system whether based on Intel Xeon processors, Intel Xeon Phi coprocessors, or other high performance

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microprocessors. Applying these techniques will generally increase your program performance on any system, and better prepare you for Intel Xeon Phi coprocessors and the Intel MIC architecture. A practical guide to the essentials of the Intel Xeon Phi coprocessor Presents best practices for portable, high-performance computing and a familiar and proven threaded, scalar-vector programming model Includes simple but informative code examples that explain the unique aspects of this new highly parallel and high performance computational product Covers wide vectors, many cores, many threads and high bandwidth cache/memory architecture

Summary Specification by Example is an emerging practice for creating software based on realistic examples, bridging the communication gap between business stakeholders and the dev teams building the software. In this book, author Gojko Adzic distills interviews with successful teams worldwide, sharing how they specify, develop, and deliver software, without defects, in short iterative delivery cycles. About the Technology Specification by Example is a collaborative method for specifying requirements and tests. Seven patterns, fully explored in this book, are key to making the method effective. The method has four main benefits: it produces living, reliable documentation; it defines expectations clearly and makes validation efficient; it reduces rework; and, above all, it assures delivery teams and business stakeholders that the software that's built is right for its purpose. About the Book This book distills from the experience of leading teams worldwide effective ways to specify, test, and deliver software in short, iterative delivery cycles. Case studies in this book range from small web startups to large financial institutions, working in many processes including XP, Scrum, and Kanban. This book is written for developers, testers, analysts, and business people

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working together to build great software. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

What's Inside  
Common process patterns  
How to avoid bad practices  
Fitting SBE in your process  
50+ case studies  
===== Table of Contents  
Part 1 Getting started  
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Key process patterns  
Living documentation  
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uSwitch  
RainStor  
Iowa Student Loan  
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Airline Solutions  
ePlan  
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Concluding thoughts

This book provides the means for a better control and purposeful consideration of the design of Architecturally Exposed Structural Steel (AESS). It deploys a detailed categorization of AESS and its uses according to design context, building typology and visual exposure. In a rare combination, this approach makes high quality benchmarks compatible with economies in terms of material use, fabrication methods, workforce and cost. Building with exposed steel has become more and more popular worldwide, also as advances in fire safety technology have permitted its use for building tasks under stringent fire regulations. On her background of long standing as a teacher in architectural steel design affiliated with many institutions, the author ranks among the world's best scholars on this topic. Among the fields covered by the extensive approach of this book are the characteristics of the various categories of AESS, the interrelatedness of design, fabrication and erection of the steel structures, issues of coating and protection (including corrosion and fire protection), special materials like weathering steel

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and stainless steel, the member choices and a connection design checklist. The description draws on many international examples from advanced contemporary architecture, all visited and photographed by the author, among which figure buildings like the Amgen Helix Bridge in Seattle, the Shard Observation Level in London, the New York Times Building and the Arganquela Footbridge.

Software documentation forms the basis for all communication relating to a software project. To be truly effective and usable, it should be based on what needs to be known. Agile Documentation provides sound advice on how to produce lean and lightweight software documentation. It will be welcomed by all project team members who want to cut out the fat from this time consuming task. Guidance given in pattern form, easily digested and cross-referenced, provides solutions to common problems. Straightforward advice will help you to judge: What details should be left in and what left out When communication face-to-face would be better than paper or online How to adapt the documentation process to the requirements of individual projects and build in change How to organise documents and make them easily accessible When to use diagrams rather than text How to choose the right tools and techniques How documentation impacts the customer Better than offering pat answers or prescriptions, this book will help you to understand the elements and processes that can be found repeatedly in good project documentation and which can be shaped and designed to address your individual circumstance. The author uses real-world examples and utilises agile principles to provide an accessible, practical pattern-based guide which shows how to produce necessary and high quality documentation.

The latest in modern Python recipes for the busy modern programmer About This Book

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Develop succinct, expressive programs in Python Learn the best practices and common idioms through carefully explained and structured recipes Discover new ways to apply Python for the new age of development Who This Book Is For The book is for web developers, programmers, enterprise programmers, engineers, big data scientist, and so on. If you are a beginner, Python Cookbook will get you started. If you are experienced, it will expand your knowledge base. A basic knowledge of programming would help. What You Will Learn See the intricate details of the Python syntax and how to use it to your advantage Improve your code readability through functions in Python Manipulate data effectively using built-in data structures Get acquainted with advanced programming techniques in Python Equip yourself with functional and statistical programming features Write proper tests to be sure a program works as advertised Integrate application software using Python In Detail Python is the preferred choice of developers, engineers, data scientists, and hobbyists everywhere. It is a great scripting language that can power your applications and provide great speed, safety, and scalability. By exposing Python as a series of simple recipes, you can gain insight into specific language features in a particular context. Having a tangible context helps make the language or standard library feature easier to understand. This book comes with over 100 recipes on the latest version of Python. The recipes will benefit everyone ranging from beginner to an expert. The book is broken down into 13 chapters that build from simple language concepts to more complex applications of the language. The recipes will touch upon all the necessary Python concepts related to data structures, OOP, functional programming, as well as statistical programming. You will get acquainted with the nuances of Python syntax and how to effectively use the advantages that it offers. You will end the book equipped with the knowledge of testing, web

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services, and configuration and application integration tips and tricks. The recipes take a problem-solution approach to resolve issues commonly faced by Python programmers across the globe. You will be armed with the knowledge of creating applications with flexible logging, powerful configuration, and command-line options, automated unit tests, and good documentation. Style and approach This book takes a recipe-based approach, where each recipe addresses specific problems and issues. The recipes provide discussions and insights and an explanation of the problems.

"Mastering the Requirements Process: Getting Requirements Right" 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.

A Practical Guide to SysML: The Systems Modeling Language is a comprehensive guide to SysML for systems and software engineers. It provides an advanced and practical resource for modeling systems with SysML. The source describes the modeling language and offers information about employing SysML in transitioning an organization or project to model-based systems engineering. The book also presents various examples to help readers understand the OMG Systems Modeling Professional (OCSMP) Certification Program. The text is organized into four parts. The first part provides an overview of systems engineering. It explains the model-based approach by comparing it with the document-based approach and providing the modeling principles. The overview of SYsML is also discussed. The second part of the book covers a comprehensive description of the language. It discusses the main

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concepts of model organization, parametrics, blocks, use cases, interactions, requirements, allocations, and profiles. The third part presents examples that illustrate how SysML supports different model-based procedures. The last part discusses how to transition and deploy SysML into an organization or project. It explains the integration of SysML into a systems development environment. Furthermore, it describes the category of data that are exchanged between a SysML tool and other types of tools, and the types of exchange mechanisms that can be used. It also covers the criteria that must be considered when selecting a SysML. Software and systems engineers, programmers, IT practitioners, experts, and non-experts will find this book useful. \*The authoritative guide for understanding and applying SysML \*Authored by the foremost experts on the language \*Language description, examples, and quick reference guide included

Author Linda Timms goes beyond the standard consulting guide to bring you constructive reliable advice for delivering effective, complete, professional functional specs on time. Filled with plain English, real-world examples, hints and tips, *SAP: How to Write a Report Functional Specification* provides the secrets you need to make a daunting task achievable. Whether you are • a SAP project team member seconded from the business, unsure where to start with documenting business requirements • a support analyst dealing with change requests and new requirements • an offshore analyst/consultant wanting to up your game, get recognition for top quality work, and stand out from the crowd • anyone fresh out of a SAP academy or training course, wanting to transition smoothly into a valuable project team member • a graduate with

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one of the big management consulting firms wanting focussed reliable advice to help build your consulting career • a junior consultant wanting to make a name for yourself as a professional productive “good” SAP resource • an experienced consultant wanting to refresh your knowledge and maybe kick some bad habits • a business analyst looking to move into the SAP arena • a manager or team lead tasked with reviewing and signing off functional specs • a project manager wanting to bring in best practices • a technical analyst wanting to understand the functional side of SAP requirements

SAP: How to Write a Report Functional Specification is a comprehensive guide, including a free downloadable functional specification template that will have you producing polished, high-caliber, valuable report specifications in no time!

Create your own natural language training corpus for machine learning. Whether you're working with English, Chinese, or any other natural language, this hands-on book guides you through a proven annotation development cycle—the process of adding metadata to your training corpus to help ML algorithms work more efficiently. You don't need any programming or linguistics experience to get started. Using detailed examples at every step, you'll learn how the MATTER Annotation Development Process helps you Model, Annotate, Train, Test, Evaluate, and Revise your training corpus. You also get a complete walkthrough of a real-world annotation project. Define a clear annotation goal before collecting your dataset (corpus) Learn tools for analyzing the linguistic content of your corpus Build a model and specification for your annotation project

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Examine the different annotation formats, from basic XML to the Linguistic Annotation Framework Create a gold standard corpus that can be used to train and test ML algorithms Select the ML algorithms that will process your annotated data Evaluate the test results and revise your annotation task Learn how to use lightweight software for annotating texts and adjudicating the annotations This book is a perfect companion to O'Reilly's Natural Language Processing with Python.

1 In a number of recent presentations – most notably at FME'96 –oneofthe foremost scientists in the ?eld of formal methods, C.A.R. Hoare,has highlighted the fact that formal methods are not the only technique for producing reliable software. This seems to have caused some controversy,not least amongst formal methods practitioners. How can one of the founding fathers of formal methods seemingly denounce the ?eld of research after over a quarter of a century of support? This is a question that has been posed recently by some formal methods skeptics. However, Prof. Hoare has not abandoned formal methods. He is reiterating, 2 albeitmoreradically,his1987view thatmorethanonetoolandnotationwillbe requiredinthepractical,industrialdevelopmentoflarge-scalecomplexcomputer systems; and not all of these tools and notations will be, or even need be, formal in nature. Formalmethods arenotasolution,butratheroneofaselectionoftechniques that have proven to be useful in the development of reliable complex systems, and to result in hardware and software systems that can be produced on-time and within a budget, while

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satisfying the stated requirements. After almost three decades, the time has come to view formal methods in the context of overall industrial-scale system development, and their relationship to

other techniques and methods. We should no longer consider the issue of whether we are “pro-formal” or “anti-formal”, but rather the degree of formality (if any) that we need to support in system development. This is a goal of ZUM'98, the 11th International Conference of Z Users, held for the first time within continental Europe in the city of Berlin, Germany.

This book describes a methodology for enabling interoperability of systems by modeling information such that it can be queried, stored and exchanged between systems in a system independent way. It is based on the use of formalized natural languages and provides guidance on the modeling of definitions, knowledge and requirements as well as modeling of individual products and processes.

In April 1991 BusinessWeek ran a cover story entitled, “Can't Work This Thing,” about the difficulties many people have with consumer products, such as cell phones and VCRs. More than 15 years later, the situation is much the same—but at a very different level of scale. The disconnect between people and technology has had society-wide consequences in the large-scale system accidents from major human error, such as those at Three Mile Island and in Chernobyl. To prevent both the individually annoying and nationally significant consequences, human capabilities and

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needs must be considered early and throughout system design and development. One challenge for such consideration has been providing the background and data needed for the seamless integration of humans into the design process from various perspectives: human factors engineering, manpower, personnel, training, safety and health, and, in the military, habitability and survivability. This collection of development activities has come to be called human-system integration (HSI). Human-System Integration in the System Development Process reviews in detail more than 20 categories of HSI methods to provide invaluable guidance and information for system designers and developers.

This is a guide to eliminating the waste of time, money and effort resulting from poor product development. It provides product definition requirements needed at the start of any product development process.

Write code that can adapt to changes. By applying this book's principles, you can create code that accommodates new requirements and unforeseen scenarios without significant rewrites. Gary McLean Hall describes Agile best practices, principles, and patterns for designing and writing code that can evolve more quickly and easily, with fewer errors, because it doesn't impede change. Now revised, updated, and expanded, Adaptive Code, Second Edition adds indispensable practical insights on Kanban, dependency inversion, and creating reusable abstractions. Drawing on over a decade of Agile consulting and development experience, McLean Hall has updated his best-

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seller with deeper coverage of unit testing, refactoring, pure dependency injection, and more. Master powerful new ways to:

- Write code that enables and complements Scrum, Kanban, or any other Agile framework
- Develop code that can survive major changes in requirements
- Plan for adaptability by using dependencies, layering, interfaces, and design patterns
- Perform unit testing and refactoring in tandem, gaining more value from both
- Use the “golden master” technique to make legacy code adaptive
- Build SOLID code with single-responsibility, open/closed, and Liskov substitution principles
- Create smaller interfaces to support more-diverse client and architectural needs
- Leverage dependency injection best practices to improve code adaptability
- Apply dependency inversion with the Stairway pattern, and avoid related anti-patterns

About You This book is for programmers of all skill levels seeking more-practical insight into design patterns, SOLID principles, unit testing, refactoring, and related topics. Most readers will have programmed in C#, Java, C++, or similar object-oriented languages, and will be familiar with core procedural programming techniques. This book constitutes the refereed proceedings of the 10th International Conference of Z Users, ZUM'97, held in Reading, UK, in April 1997. The volume presents 18 revised full papers together with three invited presentations by internationally leading experts. The papers are organized into topical sections on real-time systems, tools, logic, system development, reactive systems, refinement, and applications. Also a select Z bibliography by Jonathan Bowen is added. All in all, the book competently reports the

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state-of-the-art in research and advanced applications of the Z notation.

Bridging the Communication Gap is a book about improving communication between customers, business analysts, developers and testers on software projects, especially by using specification by example and agile acceptance testing. These two key emerging software development practices can significantly improve the chances of success of a software project. They ensure that all project participants speak the same language, and build a shared and consistent understanding of the domain. This leads to better specifications, flushes out incorrect assumptions and ensures that functional gaps are discovered before the development starts. With these practices in place you can build software that is genuinely fit for purpose.

Programming is now parallel programming. Much as structured programming revolutionized traditional serial programming decades ago, a new kind of structured programming, based on patterns, is relevant to parallel programming today. Parallel computing experts and industry insiders Michael McCool, Arch Robison, and James Reinders describe how to design and implement maintainable and efficient parallel algorithms using a pattern-based approach. They present both theory and practice, and give detailed concrete examples using multiple programming models. Examples are primarily given using two of the most popular and cutting edge programming models for parallel programming: Threading Building Blocks, and Cilk Plus. These architecture-independent models enable easy integration into existing applications, preserve

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investments in existing code, and speed the development of parallel applications. Examples from realistic contexts illustrate patterns and themes in parallel algorithm design that are widely applicable regardless of implementation technology. The patterns-based approach offers structure and insight that developers can apply to a variety of parallel programming models Develops a composable, structured, scalable, and machine-independent approach to parallel computing Includes detailed examples in both Cilk Plus and the latest Threading Building Blocks, which support a wide variety of computers

Practical recommendations for application developers who want to generate efficient PDF files. New PDF 1.4 features include Tagged PDF, Referenced PDF, PDF Metadata Architecture, forms enhancements, JBIG2 support, and more. Example files, predefined font encodings, PDF page-marking operators, and other essential information.

Learn how to create good requirements when designing hardware and software systems. While this book emphasizes writing traditional “shall” statements, it also provides guidance on use case design and creating user stories in support of agile methodologies. The book surveys modeling techniques and various tools that support requirements collection and analysis. You’ll learn to manage requirements, including discussions of document types and digital approaches using spreadsheets, generic databases, and dedicated requirements tools. Good, clear examples are presented,

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many related to real-world work the author has done during his career. Requirements Writing for System Engineering advantages of different requirements approaches and implement them correctly as your needs evolve. Unlike most requirements books, Requirements Writing for System Engineering teaches writing both hardware and software requirements because many projects include both areas. To exemplify this approach, two example projects are developed throughout the book, one focusing on hardware and the other on software. This book Presents many techniques for capturing requirements. Demonstrates gap analysis to find missing requirements. Shows how to address both software and hardware, as most projects involve both. Provides extensive examples of “shall” statements, user stories, and use cases. Explains how to supplement or replace traditional requirement statements with user stories and use cases that work well in agile development environments

**What You Will Learn**

Understand the 14 techniques for capturing all requirements. Address software and hardware needs; because most projects involve both. Ensure all statements meet the 16 attributes of a good requirement. Differentiate the 19 different functional types of requirement, and the 31 non-functional types. Write requirements properly based on extensive examples of good ‘shall’ statements, user stories, and use cases. Employ modeling techniques to mitigate the imprecision of words.

**Audience** Writing Requirements teaches you to write requirements the correct way. It is targeted at the requirements engineer who wants to improve and master his craft. This is also an

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excellent book from which to teach requirements engineering at the university level. Government organizations at all levels, from Federal to local levels, can use this book to ensure they begin all development projects correctly. As well, contractor companies supporting government development are also excellent audiences for this book.

Certifiable Software Applications 3: Downward Cycle describes the descending phase of the creation of a software application, detailing specification phases, architecture, design and coding, and important concepts on modeling and implementation. For coding, code generation and/or manual code production strategies are explored. As applications are coded, a presentation of programming languages and their impact on certifiability is included. Describes the descending phase of the creation of a software application, detailing specification phases, architecture, design and coding Presents valuable programming examples Includes a presentation of programming languages and their impact on certifiability

Competitive Engineering documents Tom Gilb's unique, ground-breaking approach to communicating management objectives and systems engineering requirements, clearly and unambiguously. Competitive Engineering is a revelation for anyone involved in management and risk control. Already used by thousands of project managers and systems engineers around the world, this is a handbook for initiating, controlling and delivering complex projects on time and within budget. The Competitive Engineering methodology provides a practical set of tools and techniques that enable readers to

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effectively design, manage and deliver results in any complex organization - in engineering, industry, systems engineering, software, IT, the service sector and beyond. Elegant, comprehensive and accessible, the Competitive Engineering methodology provides a practical set of tools and techniques that enable readers to effectively design, manage and deliver results in any complex organization - in engineering, industry, systems engineering, software, IT, the service sector and beyond. Provides detailed, practical and innovative coverage of key subjects including requirements specification, design evaluation, specification quality control and evolutionary project management Offers a complete, proven and meaningful 'end-to-end' process for specifying, evaluating, managing and delivering high quality solutions Tom Gilb's clients include HP, Intel, CitiGroup, IBM, Nokia and the US Department of Defense

The divide between UX and Web development can be stifling. Bridging UX and Web Development prepares you to break down those walls by teaching you how to integrate with your team's developers. You examine the process from their perspective, discovering tools and coding principles that will help you bridge the gap between design and implementation. With these tried and true approaches, you'll be able to capitalize on a more productive work environment. Whether you're a novice UX professional finding your place in the software industry and

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looking to nail down your technical skills, or a seasoned UI designer looking for practical information on how to integrate your team with development, this is the must-have resource for your UX library. Establish a collaboration lifecycle, mapping design activities to counterparts in the software development process Learn about software tools that will improve productivity and collaboration Work through step-by-step exercises that teach front-end coding principles to improve your prototyping and implementation activities Discover practical, usable HTML and CSS examples Uncover tips for working with various developer personas For nearly five years, one book has served as the definitive reference to Java for all serious developers: The Java Language Specification, by James Gosling, Bill Joy, and Guy Steele. Now, these world-renowned Java authorities (along with new co-author Gilad Bracha) have delivered a monumental update. This completely revised Second Edition covers the Java 2 Platform Standard Edition Version 1.3 with unprecedented depth and precision, offering the invaluable insights of Java's creators to every developer. There is no better source for learning everything about the Syntax and Semantics of the Java programming language. Developers will turn to this book again and again. This book provides an introduction to program specification, illustrating the advantages it confers upon the software development process. Covering all three

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major specification languages (Larch, VDM, and Z), the book discusses specification in general, the abstraction process, the mathematical tools required, and the main formal methods.

Updated edition of the comprehensive rulebook to the specifier's craft With this latest update, Construction Specifications Writing, Sixth Edition continues to claim distinction as the foremost text on construction specifications. This mainstay in the field offers comprehensive, practical, and professional guidance to understanding the purposes and processes for preparation of construction specifications. This new edition uses real-world document examples that reflect current writing practices shaped by the well-established principles and requirements of major professional associations, including the American Institute of Architects (AIA), the Engineers Joint Contract Documents Committee (EJCDC), and the Construction Specifications Institute (CSI). Also included are guidelines for correct terminology, product selection, organization of specifications according to recognized CSI formats, and practical techniques for document production. Fully revised throughout, this Sixth Edition includes: Updates to MasterFormat 2004, as well as SectionFormat/PageFormat 2007 and Uniformalt End-of-chapter questions and specification-writing exercises Samples of the newly updated construction documents from the AIA New chapter on

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sustainable design and specifications for LEED projects Updated information on the role of specifications in Building Information Modeling (BIM)

This book constitutes the refereed proceedings of the 4th International Symposium on Cyberspace Safety and Security (CSS 2012), held in Melbourne, Australia, in December 2012. The 30 revised full papers presented together with 7 invited talks were carefully reviewed and selected from 105 submissions. The papers cover the following topics: mobile security, cyberspace attacks and defense, security application and systems, network and cloud security, wireless security, security protocols and models.

This open access book constitutes the proceedings of the 19th International Conference on Agile Software Development, XP 2018, held in Porto, Portugal, in May 2018. XP is the premier agile software development conference combining research and practice, and XP 2018 provided a playful and informal environment to learn and trigger discussions around its main theme – make, inspect, adapt. The 21 papers presented in this volume were carefully reviewed and selected from 62 submissions. They were organized in topical sections named: agile requirements; agile testing; agile transformation; scaling agile; human-centric agile; and continuous experimentation.

This work presents a series of up-to-date case studies in the use of Z, the

