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Software architecture—the conceptual glue that holds every phase of a project together for its many stakeholders—is widely recognized as a critical element in modern software development. Practitioners have increasingly discovered that close attention to a software system’s architecture pays valuable dividends. Without an architecture that is appropriate for the problem being solved, a project will stumble along or, most likely, fail. Even with a superb architecture, if that architecture is not well understood or well communicated the project is unlikely to succeed. Documenting Software Architectures, Second Edition, provides the most complete and current guidance, independent of language or notation, on how to capture an architecture in a commonly understandable form. Drawing on their extensive experience, the authors first help you decide what information to document, and then, with guidelines and examples (in various notations, including UML), show you how to express an architecture so that others can successfully build, use, and maintain a system from it. The book features rules for sound documentation, the goals and strategies of documentation, architectural views and styles, documentation for software interfaces and software behavior, and templates for capturing and organizing information to generate a coherent package. New and improved in this second edition: Coverage of architectural styles such as service-oriented architectures, multi-tier architectures, and data models Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale, reflecting best industrial practices Improved templates, reflecting years of use and feedback, and more documentation layout options A new, comprehensive example (available online), featuring documentation of a

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Web-based service-oriented system Reference guides for three important architecture documentation languages: UML, AADL, and SysML

For those who didn't buy the first edition, welcome aboard. For those who did buy the first edition, welcome back, and thanks for making the second edition possible. For those who bought the first edition and are standing in the book store wondering whether to buy the second, what's in it for you? Well, for one thing, it's smaller. (No, no! Don't leave!) I tried to make the first edition a kind of master reference for antiviral protection. That meant I included a lot of stuff that I thought might possibly be helpful, even if I had some doubts about it. This time I've tried to be a little more selective. I've added a little more material to Chapter 4 (Computer Operations and Viral Operations) dealing with the question of computer viruses infecting data files and the new "macro" viruses. I've added two new sections to Chapter 7 (The Virus and Society). One looks at the increasing problem of false alarms while the other looks at the ethics of virus writing and exchange.

Introduces, in simple text and photographs, the characteristics of some of the animals and plants that can be found in the forest. Includes a chipmunk, box turtle, fern, bull moose, moth, ermine, and white birch.

This book will change the way you think about problems. It focuses on creating solutions to all sorts of complex problems by taking a practical, problem-solving approach. It discusses not only what needs to be done, but it also provides guidance and examples of how to do it. The book applies systems thinking to systems engineering and introduces several innovative concepts such as direct and indirect stakeholders and the Nine-System Model, which provides the context for the activities performed in the project, along with a framework for successful

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stakeholder management. A list of the figures and tables in this book is available at <https://www.crcpress.com/9781138387935>. FEATURES • Treats systems engineering as a problem-solving methodology • Describes what tools systems engineers use and how they use them in each state of the system lifecycle • Discusses the perennial problem of poor requirements, defines the grammar and structure of a requirement, and provides a template for a good imperative construction statement and the requirements for writing requirements • Provides examples of bad and questionable requirements and explains the reasons why they are bad and questionable • Introduces new concepts such as direct and indirect stakeholders and the Shmemp! • Includes the Nine-System Model and other unique tools for systems engineering

Complete and accurate documentation is one of the most important skills for a physical therapist assistant to develop and use effectively. The new Second Edition of *Documentation Basics: A Guide for the Physical Therapist Assistant* continues the path of teaching the student and clinician documentation from A to Z. Mia Erickson and Rebecca McKnight have updated this Second Edition to reflect changes of the American Physical Therapy Association and the ever-evolving profession. Updated inside *Documentation Basics: A Guide for the Physical Therapist Assistant, Second Edition*: * The discussion on integrating disablement into documentation * The discussion on how a PTA can show medical necessity and need for skilled care * The discussion on using documentation to communicate with other providers * Writing the assessment and plan to coincide with the initial documentation * Sample notes completed on forms * More examples and practice, including physical agents, school-based services, pediatrics, traumatic brain injury, spinal cord injury, and interventions consistent with

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the Guide to Physical Therapist Practice * Medicare reimbursement in different settings * The importance of consistent, reliable, and valid measurements * How to improve communication and consistency between documentation by the PT & the PTA The discussion on disablement has also been updated, shifting away from the Nagi Model toward the International Classification of Functioning, Disability, and Health (ICF). In addition, the PTA Normative Model has been integrated throughout to include more information on clinical decision making. New inside Documentation Basics: A Guide for the Physical Therapist Assistant, Second Edition: * Navigating the PT plan of care...A step-by-step model for PTAs to use as they navigate the initial PT documentation and plan of care * How the PTA uses the PT goals from the initial examination and evaluation Positive and negative aspects of using electronic documentation and a discussion on integrating SOAP notes and the problem-oriented medical record into electronic documentation * Sample notes and discussion of documentation in school-based settings, early intervention, skilled nursing settings, in-patient rehabilitation, and direct access * Medicare Parts C and D * Cash-based services and pro bono services Instructors in educational settings can visit www.efacultyounge.com for additional material to be used for teaching in the classroom. Documentation Basics: A Guide for the Physical Therapist Assistant, Second Edition is the perfect guide for all physical therapist assistant students and clinicians who want to update and refine their knowledge and skills in documentation.

Complete & accurate documentation is one of the essential skills for a physical therapist. This book covers all the fundamentals & includes practice exercises & case studies throughout. A goldmine of valuable tools for data modelers! Data modelers render raw data-names,

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addresses, and salestotals, for instance-into information such as customer profiles andseasonal buying patterns that can be used for making criticalbusiness decisions. This book brings together thirty of the mosteffective tools for solving common modeling problems. The authorprovides an example of each tool and describes what it is, why itis needed, and how it is generally used to model data for bothdatabases and data warehouses, along with tips and warnings. Blanksample copies of all worksheets and checklists described areprovided in an appendix. Companion Web site features updates on the latest tools andtechniques, plus links to related sites offering automatedtools.

Getting Web projects done right and delivered on time is all about efficiency. Putting the information you need and tools you can rely on at your ready disposal—Managing Web Projects—is a complete guide for project managers in the Internetworking industry. Whether you are a Web developer or an Internet Service Provider, whether your project is a quick fix, a complete overhaul, or a new start-up, this resource provides you with an organized path. It will walk you through a typical project life cycle, while providing you with all the tools and definitions needed to take charge and instill confidence in your staff and your customers. Invaluable for those seeking ISO 9001 certification, the text includes a number of detailed Work Instructions that can be used to develop a formal quality management system specific to a project management organization. They can also be leveraged in a TQM (Total Quality Management) or a Six Sigma

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environment. The book includes: Management guidelines for web hosting, data center migrations, site security, content development, application and Web site loading and testing, VPNs, VoIP, business continuity, and disaster recovery An Internet project management glossary, a technical Internetworking glossary, and a project management acronym table A tools suite with a proven record of success for project initiation, planning, execution, control, and close out This complete resource provides the resources needed—including dozens of time-tested templates, schedules, checklists, and flow charts—to become fully versed in and aligned with the nine knowledge areas and five major processes codified by the Project Management Body of Knowledge (PMBOK®).

Ensure confident clinical decisions and maximum reimbursement in a variety of practice settings such as acute care, outpatient, home care, and nursing homes with the only systematic approach to documentation for rehabilitation professionals! Revised and expanded, this hands-on textbook/workbook provides a unique framework for maintaining evidence of treatment progress and patient outcomes with a clear, logical progression. Extensive examples and exercises in each chapter reinforce concepts and encourage you to apply what you've learned to realistic practice scenarios. UNIQUE! Combination textbook/workbook format reinforces your understanding and tests your ability to apply concepts

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through practice exercises. UNIQUE! Systematic approach to documenting functional outcomes provides a practical framework for success in numerous practice settings. Case studies show you how to format goals through realistic client examples. Practice exercises provide valuable experience applying concepts to common clinical problems. Four NEW chapters address additional aspects of documentation that rehabilitation professionals will encounter in practice: Legal aspects of documentation Documentation in pediatrics Payment policy and coding Computerized documentation

As the first volume of World Scientific Encyclopedia with Semantic Computing and Robotic Intelligence, this volume is designed to lay the foundation for the understanding of the Semantic Computing (SC), as a core concept to study Robotic Intelligence in the subsequent volumes. This volume aims to provide a reference to the development of Semantic Computing, in the terms of "meaning", "context", and "intention". It brings together a series of technical notes, in average, no longer than 10 pages in length, each focuses on one topic in Semantic Computing; being review article or research paper, to explain the fundamental concepts, models or algorithms, and possible applications of the technology concerned. This volume will address three core areas in Semantic Computing: Understanding the (possibly naturally-expressed) intentions

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(semantics) of users and expressing them in a machine-processable format: Semantics description languages, ontology integration, interoperability Understanding the meanings (semantics) of computational content (of various sorts, including, but is not limited to, text, video, audio, process, network, software and hardware) and expressing them in a machine-processable format in Multimedia, IoT, SDN, wearable computing, interfactable with mobile computing, search engines, question answering, web services, to support applications in biomedicine, healthcare, manufacturing, engineering, education, finance, entertainment, business, science and humanity Mapping the semantics of the user in context for content retrieval, management, creation in the form of structured data, image and video, audio and speech, big data, natural language, deep learning.

Uncover the latest information you need to know when entering the growing health information management job market with *Health Information: Management of a Strategic Resource, 5th Edition*. Following the AHIMA standards for education for both two-year HIT programs and four-year HIA programs, this new edition boasts dynamic, state-of-the-art coverage of health information management, the deployment of information technology, and the role of the HIM professional in the development of the electronic health record. An easy-to-

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understand approach and expanded content on data analytics, meaningful use, and public health informatics content, plus a handy companion website, make it even easier for you to learn to manage and use healthcare data. Did You Know? boxes highlight interesting facts to enhance learning. Self-assessment quizzes test your learning and retention, with answers available on the companion Evolve website. Learning features include a chapter outline, key words, common abbreviations, and learning objectives at the beginning of each chapter, and references at the end. Diverse examples of healthcare deliveries, like long-term care, public health, home health care, and ambulatory care, prepare you to work in a variety of settings. Interactive student exercises on Evolve, including a study guide and flash cards that can be used on smart phones. Coverage of health information infrastructure and systems provides the foundational knowledge needed to effectively manage healthcare information. Applied approach to Health Information Management and Health Informatics gives you problem-solving opportunities to develop proficiency. EXPANDED! Data analytics, meaningful use, and public health informatics content prepares HIM professionals for new job responsibilities in order to meet today's, and tomorrow's, workforce needs. EXPANDED! Emphasis on the electronic health care record educates you in methods of data collection, governance, and use. NEW! Chapter on data access

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and retention provides examples of the paper health record and its transition to the EHR. NEW! Focus on future trends, including specialty certifications offered by the AHIMA, the American Medical Informatics Associations (AMIA), and the Health Information Management Systems Society (HIMSS), explains the vast number of job opportunities and expanded career path awaiting you.

In this book, Microsoft Program Manager Zac Woodall shows developers and IT pros how to use the new template architecture in Access 2007 to deliver rich data-centric tracking applications. He explains what Access templates are, how they are used, and how to create them. His discussion of template design and customization includes details that every template designer should know, such as design guidelines, best practices, and advice for overcoming technical hurdles. Advanced topics include personalization, designing for SharePoint, template security, enterprise deployment, and a detailed breakdown of the template (.accdt) file format. In only 256 pages, this book helps the reader to: Design Access 2007 Templates Build Enterprise Templates for Access 2007 Implement Secure Access 2007 Templates This book comes with a bonus chapter "Customizing the Field Templates Task Pane" and five bonus sample templates, which readers can use in their own projects (Access Add-In, Access Ribbon XML, Contacts Modified, Table Creator, and Template Maker). These valuable

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bonus materials are available as a web site download.

This book focuses on innovative ways to create customized Word documents and templates. It contains an in-depth introduction to VBA (Visual Basic for Applications), which is the embedded programming language in the Microsoft Office 2007. VBA provides a complete integrated development environment (IDE) that allows for document automation, the process of using an automated template for creating documents. The book also includes coverage of the new features of Word 2007 including Content Controls, programming the Ribbon, and more.

Updated to incorporate the latest features, tools, and functions of the new version of the popular word processing software, a detailed manual explains all the basics, as well as how to create sophisticated page layouts, insert forms and tables, use graphics, and create book-length documents with outlines and Master Documents. Original. (All Users)

The move to manage medicine from a financial perspective, i.e. managed care, has added huge layers of bureaucratic and administrative functions to healthcare. The need to have the ability to track patient medical records, mandated by government legislation such as HIPAA, is bringing new technologies and processes into the healthcare arena. A universal
The accessible, easy-to-follow guide that demystifies documentation management When it

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comes to receiving documentation to confirm good science, U.S. and international regulators place high demands on the healthcare industry. As a result, companies developing and manufacturing therapeutic products must implement a strategy that allows them to properly manage their records and documents, since they must comply with rigorous standards and be available for regulatory review or inspection at a moment's notice. Written in a user-friendly Q&A style for quick reference, *Managing the Documentation Maze* provides answers to 750 questions the authors encounter frequently in their roles as consultants and trainers. In simple terms, this handy guide breaks down the key components that facilitate successful document management, and shows why it needs to be a core discipline in the industry with information on: Compliance with regulations in pharmaceutical, biological, and device record keeping Electronic systems, hybrid systems, and the entire scope of documentation that companies must manage How to write and edit documents that meet regulatory compliance Making the transition to an electronic system, including how to validate and document the process Anyone responsible for managing documents in the health field will find this book to be a trusted partner in unraveling the bureaucratic web of confusion, while it initiates a plan on how to put an effective, lasting system in place—one that will stand up to any type of scrutiny. Technology has revolutionized the field of translation, bringing drastic changes to the way translation is studied and done. To an average user, technology is simply about clicking buttons and storing data. What we need to do is to look beyond a system's interface to see what is at work and what should be done to make it work more efficiently. This book is both macroscopic and microscopic in approach: macroscopic as it adopts a holistic orientation when outlining the development of translation technology in the last forty years, organizing concepts

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in a coherent and logical way with a theoretical framework, and predicting what is to come in the years ahead; microscopic as it examines in detail the five stages of technology-oriented translation procedure and the strengths and weaknesses of the free and paid systems available to users. The Future of Translation Technology studies, among other issues: The Development of Translation Technology Major Concepts in Computer-aided Translation Functions in Computer-aided Translation Systems A Theoretical Framework for Computer-Aided Translation Studies The Future of Translation Technology This book is an essential read for scholars and researchers of translational studies and computational linguistics, and a guide to system users and professionals.

Industrial development of software systems needs to be guided by recognized engineering principles. Commercial-off-the-shelf (COTS) components enable the systematic and cost-effective reuse of prefabricated tested parts, a characteristic approach of mature engineering disciplines. This reuse necessitates a thorough test of these components to make sure that each works as specified in a real context. Beydeda and Gruhn invited leading researchers in the area of component testing to contribute to this monograph, which covers all related aspects from testing components in a context-independent manner through testing components in the context of a specific system to testing complete systems built from different components. The authors take the viewpoints of both component developers and component users, and their contributions encompass functional requirements such as correctness and functionality compliance as well as non-functional requirements like performance and robustness. Overall this monograph offers researchers, graduate students and advanced professionals a unique and comprehensive overview of the state of the art in testing COTS components and COTS-

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based systems.

The Routledge Encyclopedia of Translation Technology provides a state-of-the art survey of the field of computer-assisted translation. It is the first definitive reference to provide a comprehensive overview of the general, regional and topical aspects of this increasingly significant area of study. The Encyclopedia is divided into three parts: Part One presents general issues in translation technology, such as its history and development, translator training and various aspects of machine translation, including a valuable case study of its teaching at a major university; Part Two discusses national and regional developments in translation technology, offering contributions covering the crucial territories of China, Canada, France, Hong Kong, Japan, South Africa, Taiwan, the Netherlands and Belgium, the United Kingdom and the United States Part Three evaluates specific matters in translation technology, with entries focused on subjects such as alignment, bitext, computational lexicography, corpus, editing, online translation, subtitling and technology and translation management systems. The Routledge Encyclopedia of Translation Technology draws on the expertise of over fifty contributors from around the world and an international panel of consultant editors to provide a selection of articles on the most pertinent topics in the discipline. All the articles are self-contained, extensively cross-referenced, and include useful and up-to-date references and information for further reading. It will be an invaluable reference work for anyone with a professional or academic interest in the subject.

A guide for educators lists reference sources, journals, book publishers, educational research software, and educational organizations.

This book constitutes the thoroughly reviewed post-proceedings of the 9th International

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Workshop, EUMAS 2011, held in Maastricht, The Netherlands, in November 2011. The 16 revised full papers included in the book were carefully revised and selected from 45 submissions. This workshop is primarily intended as a European forum at which researchers and those interested in activities relating to research in the area of autonomous agents and multi-agent systems could meet, present (potentially preliminary) research results, problems, and issues in an open and informal but academic environment. The aim of this workshop was to encourage and support activity in the research and development of multi-agent systems, in academic and industrial efforts.

The Complete Idiot's Guide to GoldMine 5 takes you into the natural way the software is used. The book's format allows you to read what you need as you need it. Topics covered include: Advanced Record Location, Working in List View, Creating Scripts, Group Scheduling, Customizing User Fields, Forecasting Sales, Network Tricks and Traps, Connecting to Hand Held Devices, and Synchronizing with Remote Users.

This proceedings set contains selected Computer, Information and Education Technology related papers from the 2014 International Conference on Computer, Intelligent Computing and Education Technology (CICET 2014), held March 27-28, 2014 in Hong Kong. The proceedings aims to provide a platform for researchers, engineers and academics as well as industry professionals from all over the world to present their research results and development activities in Computer Science, Information Technology and Education Technology.

While it has always been possible to create customized Word solutions, Word 2003 offers new functionality that allows documents to be truly interactive. Word 2003 Document Automation with VBA, XML, XSLT, and Smart Documents explains how to use a variety of technologies

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that change the ways users interact with documents. Learn how to automate documents with a minimum of programming by using Word's native functionality; use Visual Basic for Applications to create document automation solutions; record macros, create automated templates, format and manipulate files using Word, and build documents dynamically; create, edit, and format XML documents; develop smart document solutions to guide users through a variety of repetitive tasks; transform XML using WordprocessingML, XSLT, XPath, smart documents, and web services technologies.

Written by one of the leading experts in content managementsystems (CMS), this newly revised bestseller guides readers throughthe confusing-and often intimidating-task of building,implementing, running, and managing a CMS Updated to cover recent developments in online deliverysystems, as well as XML and related technologies Reflects valuable input from CMS users who attended theauthor's workshops, conferences, and courses An essential reference showing anyone involved in informationdelivery systems how to plan and implement a system that can handlelarge amounts of information and help achieve an organization'soverall goals

This handbook provides a consolidated, comprehensive information resource for engineers working with mission and safety critical systems. Principles, regulations, and processes common to all critical design projects are introduced in the opening chapters. Expert contributors then offer development models, process templates, and documentation guidelines from their own core critical applications fields: medical, aerospace, and military. Readers will gain in-depth knowledge of how to avoid common pitfalls and meet even the strictest certification standards. Particular emphasis is placed on best practices, design tradeoffs, and

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testing procedures. *Comprehensive coverage of all key concerns for designers of critical systems including standards compliance, verification and validation, and design tradeoffs *Real-world case studies contained within these pages provide insight from experience Reveals and illustrates the awesome power and flexibility of the command line, and the design and usage philosophies that support those traits. This understanding of how to extract the most from the Linux command line can help you become a better SysAdmin. Understand why many things in the Linux and Unix worlds are done as they are, and how to apply the Linux Philosophy to working as a SysAdmin. The original Unix/Linux Philosophy presented foundational and functional tenets - rules, guidelines, and procedural methods - that worked well. However, it was intended for the developers of those operating systems. Although System Administrators could apply many of the tenets to their daily work, many important tenets were missing. Over the years that David Both has been working with Linux and Unix, he has formulated his own philosophy – one which applies more directly to the everyday life of the System Administrator. This book defines a philosophy, and then illuminates the practical aspects of that philosophy with real-world experiments you can perform. Inspired by David's real mentors, and dedicated to them, The Linux Philosophy for System Administrators is a mentor to SysAdmins everywhere; remember - "If you fail you learn." What You Will Learn Apply the Linux philosophy to working as a SysAdmin Unlock the power of the knowledge you already have Fully understand and access the vast power of the command line Review the power of Linux as a function of the philosophies that built it Who This Book Is For If you want to learn the secrets that make the best Linux SysAdmins powerful far beyond that of mere mortals; if you want to understand the concepts that unlock those secrets; if you want to be the

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SysAdmin that everyone else turns to when the bytes hit the fan – then this book is for you. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

A team of Microsoft insiders shows programmers how to use Visual Studio 2005 Team System, the new suite of products from Microsoft that can be used for software modeling, design, testing, and deployment Focuses on practical application of the tools on code samples, development scenarios, and automation scripting This timely book serves as both as a step-by-step guide and as a reference for modeling, designing, and coordinating enterprise solutions at every level using Team System The book begins with an overview of Team System and then offers nuts-and-bolts guidance on practical implementation Code examples are provided in both VB.NET and C#

Written by foremost experts in the field, Engineering Modeling Languages provides end-to-end coverage of the engineering of modeling languages to turn domain knowledge into tools. The book provides a definition of different kinds of modeling languages, their instrumentation with tools such as editors, interpreters and generators, the integration of multiple modeling languages to achieve a system view, and the validation of both models and tools. Industrial case studies, across a range of application domains, are included to attest to the benefits offered by the different techniques. The book also includes a variety of simple worked examples that introduce the techniques to the

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novice user. The book is structured in two main parts. The first part is organized around a flow that introduces readers to Model Driven Engineering (MDE) concepts and technologies in a pragmatic manner. It starts with definitions of modeling and MDE, and then moves into a deeper discussion of how to express the knowledge of particular domains using modeling languages to ease the development of systems in the domains. The second part of the book presents examples of applications of the model-driven approach to different types of software systems. In addition to illustrating the unification power of models in different software domains, this part demonstrates applicability from different starting points (language, business knowledge, standard, etc.) and focuses on different software engineering activities such as Requirement Engineering, Analysis, Design, Implementation, and V&V. Each chapter concludes with a small set of exercises to help the reader reflect on what was learned or to dig further into the examples. Many examples of models and code snippets are presented throughout the book, and a supplemental website features all of the models and programs (and their associated tooling) discussed in the book.

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

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