

Where To Download The Incremental
Commitment Spiral Model Principles And
Practices For Successful Systems And Software

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Planning Algorithms
Going IT Alone: The Handbook for
Freelance and Contract Software Developers
The Ultimate Guide to the Sdlc
Human-System Integration
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Introduction to Agile Methods
Strong Towns
System Engineering Analysis, Design, and Development
Software Ownership Transfer
The Art of Systems Architecting
New Modeling Concepts for Today's Software Processes
Jim Grant
Professional Software Development
Software Design and Development: Concepts, Methodologies, Tools, and Applications
Principles of Software Engineering
Management
Proceedings of the 2018 International Conference on Software and System Process
Design for Trustworthy Software
The Agile Developer's Handbook
Architecting Systems
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Cost Estimation with COCOMO II Metrics and Models in
Software Quality Engineering Performance-Based
Project Management Evolutionary Acquisition Software
Testing and Analysis The Mythical Man-month

Planning Algorithms

Going IT Alone: The Handbook for Freelance and Contract Software Developers

From the beginning of software time, people have wondered why it isn't possible to accelerate software projects by simply adding staff. This is sometimes known as the "nine women can't make a baby in one month" problem. The most famous treatise declaring this to be impossible is Fred Brooks' 1975 book *The Mythical Man-Month*, in which he declares that "adding more programmers to a late software project makes it later," and indeed this has proven largely true over the decades. Aided by a domain-driven code generator that quickly creates database and API code, Parallel Agile (PA) achieves significant schedule compression using parallelism: as many developers as necessary can independently and concurrently develop the scenarios from initial prototype through production code. Projects can scale by elastic staffing, rather than by stretching schedules for larger development efforts. Schedule compression with a large team of developers working in parallel is analogous to hardware acceleration of compute

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problems using parallel CPUs. PA has some similarities with and differences from other Agile approaches. Like most Agile methods, PA "gets to code early" and uses feedback from executable software to drive requirements and design. PA uses technical prototyping as a risk-mitigation strategy, to help sanity-check requirements for feasibility, and to evaluate different technical architectures and technologies. Unlike many Agile methods, PA does not support "design by refactoring," and it doesn't drive designs from unit tests. Instead, PA uses a minimalist UML-based design approach (Agile/ICONIX) that starts out with a domain model to facilitate communication across the development team, and partitions the system along use case boundaries, which enables parallel development. Parallel Agile is fully compatible with the Incremental Commitment Spiral Model (ICSM), which involves concurrent effort of a systems engineering team, a development team, and a test team working alongside the developers. The authors have been researching and refining the PA process for several years on multiple test projects that have involved over 200 developers. The book's example project details the design of one of these test projects, a crowdsourced traffic safety system.

The Ultimate Guide to the Sdlc

A detailed guide to self-employment for software and web developers—from identifying your target market, through to managing your time, finances, and client behavior About This Book Discover how to make money with software development skills. Learn how to

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develop a marketing and sales strategy and develop profitable pricing strategies for your software services and products Gain insights through real case studies and insights provided from industry experts Who This Book Is For Going the self employed route in software development offers many opportunities to develop awareness and skills to enhance your career. Whether you are a student currently studying software development or a veteran software developer already in the industry, Going IT Alone provides you with insights you need to avoid the pitfalls of self employment and to succeed with software projects that are profitable and sustainable. What You Will Learn Identify and understand your target market. Propose the value of what your service or product offers. Build a business model that identifies key entities required to make your software business work. Develop marketing a marketing strategy that targets the right customer segments and produces the sales you need to be profitable. Analyze information to make better decisions and understand your business performance. Understand people through observation and use this to your advantage in project management and negotiation. Improve accuracy of estimates for time and costs of your software projects. Understand the relationship between code and the business strategy. Identify software features from a business perspective, allowing you to prioritise must have features from those that are less important to your profitability. Avoid the trap of increasing software development time and costs from features that provide no benefit or sales increase. In Detail No matter whether you are a student or an industry veteran, self employment

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adds a new dimension of opportunities to “learn and earn”, whether it be on a full-time or part-time basis. Develop the business acumen and understanding of the link between software patterns and business strategy that you need to become a successful and profitable independent software developer. Discover how to apply your software development skills to entrepreneurship. Decide whether you just want to earn or aspire to build the next Facebook. Supported by real world case studies and input from industry experts, the book looks at the business topics you need to understand to become an independent software developer. From the initial steps of identifying how you can make a profit with your software development skills, through to making your first sale and managing your projects, you will learn how to manage each of the major steps involved in becoming a self employed software developer – whether you decide to go freelance, take up contracting or develop your own product. Written specifically for software and web developers, the book identifies how business issues have a direct impact on code patterns used in software projects. Learn how to build your code to support your business model and with safety features to protect against potential threats that may emerge from the changing business environment. Style and approach This book is a detailed guide to self employment for software and web developers , covering major topics from identifying your target market and business model, through to managing your time, finances and client behavior.

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Human-System Integration in the System Development Process

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Software Engineering

A Thorough Introduction to the Agile Framework and Methodologies That Are Used Worldwide

Organizations of all shapes and sizes are embracing Agile methodologies as a way to transform their products, customer satisfaction, and employee engagement. Many people with varying levels of work experience are interested in understanding the architecture and nuances of Agile, but it is difficult to know where to start. Numerous practitioner books are available, but there has never been a single source for unbiased information about Agile methodologies—until now. Introduction to Agile Methods is the place to start for students and professionals who want to understand Agile and become conversant with Agile values, principles, framework, and processes. Authors Sondra Ashmore and Kristin Runyan use academic research and their own experiences with numerous Agile implementations to present a clear description of the essential concepts. They address all key roles and the entire development life cycle, including common roadblocks that must be overcome to be successful. Through the authors' realistic use cases, practical examples, and thought-provoking interviews with pioneering practitioners, complex concepts are made relatable. No matter what your role or level of

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experience, this book provides a foundational understanding that can be used to start or enhance any Agile effort. Coverage includes How Agile compares with the Waterfall method and when to use each Why Agile demands a cultural transformation—and how that looks to each participant Comparing various Agile methodologies, including Scrum, Kanban, Extreme Programming (XP), Crystal, Feature Driven Development (FDD), Lean, and DSDM Understanding the roles within Agile and how they work together to create superior results Agile approaches to requirements gathering, planning, estimating, tracking, reporting, testing, quality, and integration Extending Agile beyond IT

Integrating CMMI and Agile Development

A detailed and thorough reference on the discipline and practice of systems engineering The objective of the International Council on Systems Engineering (INCOSE) Systems Engineering Handbook is to describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system. The book covers a wide range of fundamental system concepts that broaden the thinking of the systems engineering practitioner, such as system thinking, system science, life cycle management, specialty engineering, system of systems, and agile and iterative methods. This book also defines the discipline and practice of systems engineering for students and practicing professionals alike, providing an authoritative reference that is acknowledged worldwide. The latest

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edition of the INCOSE Systems Engineering Handbook: Is consistent with ISO/IEC/IEEE 15288:2015 Systems and software engineering—System life cycle processes and the Guide to the Systems Engineering Body of Knowledge (SEBoK) Has been updated to include the latest concepts of the INCOSE working groups Is the body of knowledge for the INCOSE Certification Process This book is ideal for any engineering professional who has an interest in or needs to apply systems engineering practices. This includes the experienced systems engineer who needs a convenient reference, a product engineer or engineer in another discipline who needs to perform systems engineering, a new systems engineer, or anyone interested in learning more about systems engineering.

Software Risk Management

Organizations invest immense amounts of time, resources, and attention in their software projects. But all too often, when it's time to transfer the finished project to new "owners," they settle for the most superficial classroom training, documentation, and code walkthroughs. These conventional approaches to knowledge transfer often fail, dramatically reducing the value of new systems in production. You can do much better - and Software Ownership Transfer will show you how. This is the first practical, hands-on guide to knowledge transfer in today's agile environments. Using a realistic, large-scale case study, ThoughtWorks expert Vinod Sankaranarayanan shows how to elevate knowledge

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transfer from "necessary evil" to an activity full of agility and innovation, and bring together multiple organizations and cultures to make ownership transfer work. Sankaranarayanan explains why mere documentation of error reports and processes isn't enough, and shows how to successfully craft a knowledge transfer program that's more substantive and effective. Along the way, he offers guidance on overcoming the commercial compromises and personal tensions often associated with transferring systems to new ownership; and on transforming mere "knowledge transfer" into something much better: "taking ownership."

Essentials of Software Engineering

Lean Software Development: An Agile Toolkit
Adapting agile practices to your development organization
Uncovering and eradicating waste throughout the software development lifecycle
Practical techniques for every development manager, project manager, and technical leader
Lean software development: applying agile principles to your organization
In Lean Software Development, Mary and Tom Poppendieck identify seven fundamental "lean" principles, adapt them for the world of software development, and show how they can serve as the foundation for agile development approaches that work. Along the way, they introduce 22 "thinking tools" that can help you customize the right agile practices for any environment. Better, cheaper, faster software development. You can have all three—if you adopt the same lean principles that have already

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revolutionized manufacturing, logistics and product development. Iterating towards excellence: software development as an exercise in discovery Managing uncertainty: "decide as late as possible" by building change into the system. Compressing the value stream: rapid development, feedback, and improvement Empowering teams and individuals without compromising coordination Software with integrity: promoting coherence, usability, fitness, maintainability, and adaptability How to "see the whole"-even when your developers are scattered across multiple locations and contractors Simply put, Lean Software Development helps you refocus development on value, flow, and people-so you can achieve breakthrough quality, savings, speed, and business alignment.

INCOSE Systems Engineering Handbook

Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions. Software Design and Development: Concepts, Methodologies, Tools, and Applications brings together the best practices of theory and implementation in the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars seeking the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems.

Software Processes and Life Cycle

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

Software Engineering Economics

CD-ROM includes: Video introduction -- Book overview -- COCOMO II. 2000 software -- Tutorials -- Adobe Acrobat Reader installation package.

The Incremental Commitment Spiral Model

In *The Discipline of Teams*, Jon Katzenbach and Douglas Smith explore the often counter-intuitive features that make up high-performing teams—such

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as selecting team members for skill, not compatibility—and explain how managers can set specific goals to foster team development. The result is improved productivity and teams that can be counted on to deliver more than just the sum of their parts. Since 1922, Harvard Business Review has been a leading source of breakthrough ideas in management practice. The Harvard Business Review Classics series now offers you the opportunity to make these seminal pieces a part of your permanent management library. Each highly readable volume contains a groundbreaking idea that continues to shape best practices and inspire countless managers around the world.

Software Process Definition and Management

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 needs must be considered early and throughout system design and development. One challenge for such consideration has been providing the background and data needed

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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.

Lean Software Development

A pragmatic companion guide to your Agile journey
Key Features Make your team Agile by implementing industry-standard Agile techniques Assess scope, scale up efficiently Create the correct roles and identify the right candidates for your team Finish your projects faster and stay ahead of the curve Book Description This book will help you overcome the common challenges you'll face when transforming your working practices from waterfall to Agile. Each chapter builds on the last, starting with easy-to-grasp ways to get going with Agile. Next you'll see how to choose the right Agile framework for your organization. Moving on, you'll implement systematic product delivery and measure and report progress with visualization. Then you'll learn how to create high performing teams, develop people in Agile, manage in Agile, and perform distributed Agile and collaborative governance. At the end of the book, you'll discover how Agile will help your company

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progressively deliver software to customers, increase customer satisfaction, and improve the level of efficiency in software development teams. What you will learn Create a solid foundation that gives your team an Agile jumpstart Understand how to select and evolve practices to increase your team's agility Use experiments to accelerate your team's understanding Fine-tune your approach by incorporating aspects of Lean and Lean Startup Know how to foster an environment of continuous improvement and learning that will become self-sustaining Who this book is for If you're a software developer or a project manager with little to no experience of Agile, but you want to efficiently implement it, this is the book for you.

Balancing Agility and Discipline

Today's architecting must handle systems of types unknown until very recently. New domains, including personal computers, intersatellite networks, health services, and joint service command and control are calling for new architectures-and for architects specializing in those domains. Since the original publication, of this bestselling text, these

Parallel Agile - faster delivery, fewer defects, lower cost

2010 was the first time that the International Conference on Software Process was held autonomously and not co-located with a larger conference. This was a special challenge and we are

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glad that the conference gained a lot of attention, a significant number of contributions and many highly interested participants from industry and academia. This volume contains the papers presented at ICSP 2010 held in Paderborn, G- many, during July 8-9, 2010. ICSP 2010 was the fourth conference of the ICSP series. The conference provided a forum for researchers and industrial practitioners to - change new research results, experiences, and findings in the area of software and system process modeling and management. The increasing distribution of development activities, new development paradigms such as cloud computing, new classes of systems such as cyber-physical systems, and short technology cycles are currently driving forces for the software domain. They require appropriate answers with respect to process models and management, suitable modeling concepts, and an understanding of the effects of the processes in specific environments and domains. Many papers in the proceedings address these issues.

Critical Code

Jim Grant was a visionary leader on a global scale. As Executive Director of UNICEF, the United Nations Children's Fund, from 1980 to 1995, he launched a worldwide child survival and development revolution. The practical result was that by 1995, 25 million children were alive who would otherwise have died. Millions more were living with better health and nutrition. The eight stories in this volume, each one written by a close colleague of Jim Grant, celebrate

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this achievement. They also draw out the lessons on Grant's vision and leadership - lessons relevant in many other contexts.

The Discipline of Teams

This practical guide is designed to assist professionals with the problems involved in developing complex software systems, presenting a set of guidelines and tools to manage the technical and organisational aspects of software engineering projects

The Requirements Engineering Handbook

Teaches readers how to test and analyze software to achieve an acceptable level of quality at an acceptable cost Readers will be able to minimize software failures, increase quality, and effectively manage costs Covers techniques that are suitable for near-term application, with sufficient technical background to indicate how and when to apply them Provides balanced coverage of software testing & analysis approaches By incorporating modern topics and strategies, this book will be the standard software-testing textbook

Foundations for Designing User-Centered Systems

Many organizations that have improved process maturity through Capability Maturity Model Integration (CMMI®) now also want greater agility.

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Conversely, many organizations that are succeeding with Agile methods now want the benefits of more mature processes. The solution is to integrate CMMI and Agile. Integrating CMMI® and Agile Development offers broad guidance for melding these process improvement methodologies. It presents six detailed case studies, along with essential real-world lessons, big-picture insights, and mistakes to avoid. Drawing on decades of process improvement experience, author Paul McMahon explains how combining an Agile approach with the CMMI process improvement framework is the fastest, most effective way to achieve your business objectives. He offers practical, proven techniques for CMMI and Agile integration, including new ways to extend Agile into system engineering and project management and to optimize performance by focusing on your organization's unique, culture-related weaknesses.

Introduction to Agile Methods

Strong Towns

"Being a certified bibliophile and a professional geek, I have more shelf space devoted to books on software methods than any reasonable human should possess. *Balancing Agility and Discipline* has a prominent place in that section of my library, because it has helped me sort through the noise and smoke of the current method wars." --From the Foreword by Grady Booch
"This is an outstanding book on an emotionally complicated topic. I applaud the authors for the care

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with which they have handled the subject." --From the Foreword by Alistair Cockburn "The authors have done a commendable job of identifying five critical factors--personnel, criticality, size, culture, and dynamism--for creating the right balance of flexibility and structure. Their thoughtful analysis will help developers who must sort through the agile-disciplined debate, giving them guidance to create the right mix for their projects." --From the Foreword by Arthur Pyster Agility and discipline: These apparently opposite attributes are, in fact, complementary values in software development. Plan-driven developers must also be agile; nimble developers must also be disciplined. The key to success is finding the right balance between the two, which will vary from project to project according to the circumstances and risks involved. Developers, pulled toward opposite ends by impassioned arguments, ultimately must learn how to give each value its due in their particular situations. Balancing Agility and Discipline sweeps aside the rhetoric, drills down to the operational core concepts, and presents a constructive approach to defining a balanced software development strategy. The authors expose the bureaucracy and stagnation that mark discipline without agility, and liken agility without discipline to unbridled and fruitless enthusiasm. Using a day in the life of two development teams and ground-breaking case studies, they illustrate the differences and similarities between agile and plan-driven methods, and show that the best development strategies have ways to combine both attributes. Their analysis is both objective and grounded, leading finally to clear and practical guidance for all software

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professionals--showing how to locate the sweet spot on the agility-discipline continuum for any given project. 0321186125B10212003

System Engineering Analysis, Design, and Development

This book provides a comprehensive overview of the field of software processes, covering in particular the following essential topics: software process modelling, software process and lifecycle models, software process management, deployment and governance, and software process improvement (including assessment and measurement). It does not propose any new processes or methods; rather, it introduces students and software engineers to software processes and life cycle models, covering the different types ranging from “classical”, plan-driven via hybrid to agile approaches. The book is structured as follows: In chapter 1, the fundamentals of the topic are introduced: the basic concepts, a historical overview, and the terminology used. Next, chapter 2 covers the various approaches to modelling software processes and lifecycle models, before chapter 3 discusses the contents of these models, addressing plan-driven, agile and hybrid approaches. The following three chapters address various aspects of using software processes and lifecycle models within organisations, and consider the management of these processes, their assessment and improvement, and the measurement of both software and software processes. Working with software processes normally involves various tools, which are the focus of chapter

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7, before a look at current trends in software processes in chapter 8 rounds out the book. This book is mainly intended for graduate students and practicing professionals. It can be used as a textbook for courses and lectures, for self-study, and as a reference guide. When used as a textbook, it may support courses and lectures on software processes, or be used as complementary literature for more basic courses, such as introductory courses on software engineering or project management. To this end, it includes a wealth of examples and case studies, and each chapter is complemented by exercises that help readers gain a better command of the concepts discussed.

Software Ownership Transfer

The orderly Sweet-Williams are dismayed at their son's fondness for the messy pastime of gardening.

The Art of Systems Architecting

"So far, EA implementation of military space programs has produced mixed results. The capabilities and requirements definition and management processes are major challenges in all EA programs. EA programs require an evolutionary costing approach; most cost analysts interviewed expressed generally positive views about EA."--BOOK JACKET.

New Modeling Concepts for Today's Software Processes

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“The title makes a huge promise: a way to divide commitment into increments that are both meetable (good news for developers) and meaningful (good news for managers and stakeholders). And the book makes good on that promise.” –Tom DeMarco, Principal, The Atlantic Systems Guild, author of *Peopleware*, *Deadline*, and *Slack* “I am seriously impressed with this ICSM book. Besides being conceptually sound, I was amazed by the sheer number of clear and concise characterizations of issues, relationships, and solutions. I wanted to take a yellow highlighter to it until I realized I’d be highlighting most of the book.” –Curt Hibbs, Chief Agile Evangelist, Boeing

Use the ICSM to Generate and Evolve Your Life-Cycle Process Assets to Best Fit Your Organization’s Diverse and Changing Needs

Many systems development practitioners find traditional “one-size-fits-all” processes inadequate for the growing complexity, diversity, dynamism, and assurance needs of their products and services. The Incremental Commitment Spiral Model (ICSM) responds with a principle- and risk-based framework for defining and evolving your project and corporate process assets, avoiding pitfalls and disruption, and leveraging opportunities to increase value. This book explains ICSM’s framework of decision criteria and principles, and shows how to apply them through relevant examples. It demonstrates ICSM’s potential for reducing rework and technical debt, improving maintainability, handling emergent requirements, and raising assurance levels. Its coverage includes What makes a system development successful ICSM’s goals, principles, and usage as a process-generation framework Creating and evolving processes to match

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your risks and opportunities Integrating your current practices and adopting ICSM concepts incrementally, focusing on your greatest needs and opportunities About the Website: Download the evolving ICSM guidelines, subprocesses, templates, tools, white papers, and academic support resources at csse.usc.edu/ICSM.

Jim Grant

Introduction and overview; Risk management practices: the six basic steps; Risk resolution techniques; Implementing risk management; Assotated bibliography and references.

Professional Software Development

The Ultimate Guide to the SDLC is a complete and ready-to-adapt System Development Life Cycle that covers every aspect of system development from project inception to production and everything in between. Available as an eBook for years, it stands as the most complete and comprehensive guide of its kind.

Software Design and Development: Concepts, Methodologies, Tools, and Applications

Software Engineering Economics is an invaluable guide to determining software costs, applying the fundamental concepts of microeconomics to software engineering, and utilizing economic analysis in

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software engineering decision making.

Principles of Software Engineering Management

Essentials of Software Engineering, Second Edition is a comprehensive, yet concise introduction to the core fundamental topics and methodologies of software development. Ideal for new students or seasoned professionals looking for a new career in the area of software engineering, this text presents the complete life cycle of a software system, from inception to release and through support. The authors have broken the text into six distinct sections covering programming concepts, system analysis and design, principles of software engineering, development and support processes, methodologies, and product management. Presenting topics emphasized by the IEEE Computer Society sponsored Software Engineering Body of Knowledge (SWEBOK) and by the Software Engineering 2004 Curriculum Guidelines for Undergraduate Degree Programs in Software Engineering, the second edition of Essentials of Software Engineering is an exceptional text for those entering the exciting world of software development. New topics of the Second Edition include: Process definition and communications added in Chapter 4 Requirements traceability added in Chapter 6 Further design concerns, such as impedance mismatch in Chapter 7 Law of Demeter in Chapter 8 Measuring project properties and GQM in Chapter 13 Security and software engineering in a new Chapter 14

Proceedings of the 2018 International Conference on Software and System Process

Foundations for Designing User-Centered Systems introduces the fundamental human capabilities and characteristics that influence how people use interactive technologies. Organized into four main areas—anthropometrics, behaviour, cognition and social factors—it covers basic research and considers the practical implications of that research on system design. Applying what you learn from this book will help you to design interactive systems that are more usable, more useful and more effective. The authors have deliberately developed Foundations for Designing User-Centered Systems to appeal to system designers and developers, as well as to students who are taking courses in system design and HCI. The book reflects the authors' backgrounds in computer science, cognitive science, psychology and human factors. The material in the book is based on their collective experience which adds up to almost 90 years of working in academia and both with, and within, industry; covering domains that include aviation, consumer Internet, defense, eCommerce, enterprise system design, health care, and industrial process control.

Design for Trustworthy Software

bull; Renowned software expert Steve McConnell presents his latest thoughts on the condition of the software engineering profession bull; Helps software

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developers regain the sight of the big-picture reasons why their jobs matter bull; A thinking man's guide to the current state of software

The Agile Developer's Handbook

This work has been updated to include chapters on Web engineering and component-based software engineering. It provides a greater emphasis on UML, in-depth coverage of testing and metrics for object-orientated systems and discussion about management and technical topics in software engineering.

Architecting Systems

Planning algorithms are impacting technical disciplines and industries around the world, including robotics, computer-aided design, manufacturing, computer graphics, aerospace applications, drug design, and protein folding. This coherent and comprehensive book unifies material from several sources, including robotics, control theory, artificial intelligence, and algorithms. The treatment is centered on robot motion planning, but integrates material on planning in discrete spaces. A major part of the book is devoted to planning under uncertainty, including decision theory, Markov decision processes, and information spaces, which are the 'configuration spaces' of all sensor-based planning problems. The last part of the book delves into planning under differential constraints that arise when automating the motions of virtually any mechanical system. This

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text and reference is intended for students, engineers, and researchers in robotics, artificial intelligence, and control theory as well as computer graphics, algorithms, and computational biology.

Software Cost Estimation with COCOMO II

Praise for the first edition: "This excellent text will be useful to every system engineer (SE) regardless of the domain. It covers ALL relevant SE material and does so in a very clear, methodical fashion. The breadth and depth of the author's presentation of SE principles and practices is outstanding." –Philip Allen This textbook presents a comprehensive, step-by-step guide to System Engineering analysis, design, and development via an integrated set of concepts, principles, practices, and methodologies. The methods presented in this text apply to any type of human system -- small, medium, and large organizational systems and system development projects delivering engineered systems or services across multiple business sectors such as medical, transportation, financial, educational, governmental, aerospace and defense, utilities, political, and charity, among others. Provides a common focal point for "bridging the gap" between and unifying System Users, System Acquirers, multi-discipline System Engineering, and Project, Functional, and Executive Management education, knowledge, and decision-making for developing systems, products, or services Each chapter provides definitions of key terms, guiding principles, examples, author's notes,

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real-world examples, and exercises, which highlight and reinforce key SE&D concepts and practices

Addresses concepts employed in Model-Based Systems Engineering (MBSE), Model-Driven Design (MDD), Unified Modeling Language (UMLTM) / Systems Modeling Language (SysMLTM), and Agile/Spiral/V-Model Development such as user needs, stories, and use cases analysis;

specification development; system architecture development; User-Centric System Design (UCSD); interface definition & control; system integration & test; and Verification & Validation (V&V)

Highlights/introduces a new 21st Century Systems Engineering & Development (SE&D) paradigm that is easy to understand and implement. Provides practices that are critical staging points for technical decision making such as Technical Strategy Development; Life Cycle requirements; Phases, Modes, & States; SE Process; Requirements Derivation; System Architecture Development, User-Centric System Design (UCSD); Engineering Standards, Coordinate Systems, and Conventions; et al.

Thoroughly illustrated, with end-of-chapter exercises and numerous case studies and examples, Systems Engineering Analysis, Design, and Development, Second Edition is a primary textbook for multi-discipline, engineering, system analysis, and project management undergraduate/graduate level students and a valuable reference for professionals.

Metrics and Models in Software Quality Engineering

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A new way forward for sustainable quality of life in cities of all sizes *Strong Towns: A Bottom-Up Revolution to Build American Prosperity* is a book of forward-thinking ideas that breaks with modern wisdom to present a new vision of urban development in the United States. Presenting the foundational ideas of the Strong Towns movement he co-founded, Charles Marohn explains why cities of all sizes continue to struggle to meet their basic needs, and reveals the new paradigm that can solve this longstanding problem. Inside, you'll learn why inducing growth and development has been the conventional response to urban financial struggles—and why it just doesn't work. New development and high-risk investing don't generate enough wealth to support itself, and cities continue to struggle. Read this book to find out how cities large and small can focus on bottom-up investments to minimize risk and maximize their ability to strengthen the community financially and improve citizens' quality of life. Develop in-depth knowledge of the underlying logic behind the "traditional" search for never-ending urban growth Learn practical solutions for ameliorating financial struggles through low-risk investment and a grassroots focus Gain insights and tools that can stop the vicious cycle of budget shortfalls and unexpected downturns Become a part of the Strong Towns revolution by shifting the focus away from top-down growth toward rebuilding American prosperity Strong Towns acknowledges that there is a problem with the American approach to growth and shows community leaders a new way forward. The Strong Towns response is a revolution in how we assemble the places we live.

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Projects fail to meet goals for many reasons: poor time and budget performance, failure to deal with complexity, uncontrolled changes in scope Even the most experienced project managers can be caught off guard in the presence of these forces. Performance-Based Project Management shows readers how they can increase the probability of project success, detailing a straightforward plan for avoiding surprises, forecasting performance, identifying risk, and taking corrective action to keep a project a success. Based on the "Five Immutable Principles of Project Success," this book shows project leaders how to assess the business capabilities needed for a project; plan and schedule the work; determine the resources required to complete on time and on budget; identify and manage risks to success; and measure performance in units meaningful to decision makers. Project managers will learn the core practices for each principle, as well as associated processes, so that they can lay the foundation for project success from the start. They'll discover how each process produces "artifacts," which provide feedback as to whether everything is going well-and if not, when and how it will be fixed. Each practice is illustrated through examples and tailored for different levels of complexity and risk to help project managers ensure that project aren't just done-they're done right.

Evolutionary Acquisition

ASQ 2007 CROSBY MEDAL WINNER! An Integrated

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Technology for Delivering Better Software—Cheaper and Faster! This book presents an integrated technology, Design for Trustworthy Software (DFTS), to address software quality issues upstream such that the goal of software quality becomes that of preventing bugs in implementation rather than finding and eliminating them during and after implementation. The thrust of the technology is that major quality deployments take place before a single line of code is written! This customer-oriented integrated technology can help deliver breakthrough results in cost, quality, and delivery schedule thus meeting and exceeding customer expectations. The authors describe the principles behind the technology as well as their applications to actual software design problems. They present illustrative case studies covering various aspects of DFTS technology including CoSQ, AHP, TRIZ, FMEA, QFD, and Taguchi Methods and provide ample questions and exercises to test the readers understanding of the material in addition to detailed examples of the applications of the technology. The book can be used to impart organization-wide learning including training for DFTS Black Belts and Master Black Belts. It helps you gain rapid mastery, so you can deploy DFTS Technology quickly and successfully. Learn how to

- Plan, build, maintain, and improve your trustworthy software development system
- Adapt best practices of quality, leadership, learning, and management for the unique software development milieu
- Listen to the customer's voice, then guide user expectations to realizable, reliable software products
- Refocus on customer-centered issues such as reliability, dependability, availability, and upgradeability
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Encourage greater design creativity and innovation • Validate, verify, test, evaluate, integrate, and maintain software for trustworthiness • Analyze the financial impact of software quality • Prepare your leadership and infrastructure for DFTS Design for Trustworthy Software will help you improve quality whether you develop in-house, outsource, consult, or provide support. It offers breakthrough solutions for the entire spectrum of software and quality professionals—from developers to project leaders, chief software architects to customers. The American Society for Quality (ASQ) is the world's leading authority on quality which provides a community that advances learning, quality improvement, and knowledge exchange to improve business results, and to create better workplaces and communities worldwide. The Crosby Medal is presented to the individual who has authored a distinguished book contributing significantly to the extension of the philosophy and application of the principles, methods, or techniques of quality management. Bijay K. Jayaswal, CEO of Agilent Consulting Group, has held senior executive positions and consulted on quality and strategy for 25 years. His expertise includes value engineering, process improvement, and product development. He has directed MBA and Advanced Management programs, and helped to introduce enterprise-wide reengineering and Six Sigma initiatives. Dr. Peter C. Patton, Chairman of Agilent Consulting Group, is Professor of Quantitative Methods and Computer Science at the University of St. Thomas. He served as CIO of the University of Pennsylvania and CTO at Lawson Software, and has been involved with software development since 1955.

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Software Testing and Analysis

Critical Code contemplates Department of Defense (DoD) needs and priorities for software research and suggests a research agenda and related actions. Building on two prior books-Summary of a Workshop on Software Intensive Systems and Uncertainty at Scale and Preliminary Observations on DoD Software Research Needs and Priorities-the present volume assesses the nature of the national investment in software research and, in particular, considers ways to revitalize the knowledge base needed to design, produce, and employ software-intensive systems for tomorrow's defense needs. Critical Code discusses four sets of questions: To what extent is software capability significant for the DoD? Is it becoming more or less significant and strategic in systems development? Will the advances in software producibility needed by the DoD emerge unaided from industry at a pace sufficient to meet evolving defense requirements? What are the opportunities for the DoD to make more effective use of emerging technology to improve software capability and software producibility? In which technology areas should the DoD invest in research to advance defense software capability and producibility?

The Mythical Man-month

The concept of processes is at the heart of software and systems engineering. Software process models integrate software engineering methods and techniques and are the basis for managing large-scale

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software and IT projects. High product quality routinely results from high process quality. Software process management deals with getting and maintaining control over processes and their evolution. Becoming acquainted with existing software process models is not enough, though. It is important to understand how to select, define, manage, deploy, evaluate, and systematically evolve software process models so that they suitably address the problems, applications, and environments to which they are applied. Providing basic knowledge for these important tasks is the main goal of this textbook. Münch and his co-authors aim at providing knowledge that enables readers to develop useful process models that are suitable for their own purposes. They start with the basic concepts. Subsequently, existing representative process models are introduced, followed by a description of how to create individual models and the necessary means for doing so (i.e., notations and tools). Lastly, different possible usage scenarios for process management are highlighted (e.g. process improvement and software process simulation). Their book is aimed at students and researchers working on software project management, software quality assurance, and software measurement; and at practitioners who are interested in process definition and management for developing, maintaining, and operating software-intensive systems and services.

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