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Series



Software Engineering Productivity Handbook

JESSICA KEYES

Software Engineering Productivity Handbook

L Reisser



Software Engineering Productivity Handbook:

Software Engineering Productivity Handbook Jessica Keyes,1993 **Software Engineering Handbook** Jessica Keyes,2002-12-23 Unfortunately much of what has been written about software engineering comes from an academic perspective which does not always address the everyday concerns that software developers and managers face With decreasing software budgets and increasing demands from users and senior management technology directors need a complete guide to the subject of software engineering The successor to the bestselling Software Engineering Productivity Handbook this book fulfills that need Written by an expert with over 25 years of practical experience in building systems The Software Engineering Handbook covers the full spectrum of software engineering methodologies techniques and tools and provides details on how to reach the goals of quality management in a software engineering environment It includes a wide variety of information from the guidelines for the Malcom Baldrige Quality Award to the IEEE measures for reliable software 65 field tested how to chapters provide techniques guidelines and philosophies that will assist developers in implementing quality and productivity programs The author provides readers with a wealth of information and advice in a multitude of areas including management of resources methods quality and metrics The book concludes with 19 appendices filled with guides templates forms and examples that illustrate important software engineering techniques such as software requirement specification software design specification and a complete test plan including use of automated estimation tools

The Information System Consultant's Handbook William S. Davis,David C. Yen,1998-12-28 The Information System Consultant s Handbook familiarizes systems analysts systems designers and information systems consultants with underlying principles specific documentation and methodologies Corresponding to the primary stages in the systems development life cycle the book divides into eight sections Principles Information Gathering and Problem Definition Project Planning and Project Management Systems Analysis Identifying Alternatives Component Design Testing and Implementation Operation and Maintenance Eighty two chapters comprise the book and each chapter covers a single tool technique set of principles or methodology The clear concise narrative supplemented with numerous illustrations and diagrams makes the material accessible for readers effectively outlining new and unfamiliar analysis and design topics *Software Engineering Productivity* C. Stevenson,1995 Poor quality development and maintenance of software continues to cause costly errors and as the demand for new software increases so our ability to supply and maintain it has deteriorated Software engineering productivity has therefore become a problem Dr Stevenson has written this books in order to address the issue reviewing the research in the field and going on to provide guidelines to improve productivity Part 2 covers the factors affecting productivity from organizational structures and personnel through to software hardware and quality measurement In Part 3 the solutions to current problems and topics for future research in the field interested in the performance of new technology in their business The CIO's Guide to Risk Jessica Keyes,2017-11-22 In an age of globalization widely distributed systems

and rapidly advancing technological change IT professionals and their managers must understand that risk is ever present The key to project success is to identify risk and subsequently deal with it The CIO s Guide to Risk addresses the many faces of risk whether it be in systems development adoption of bleeding edge tech the push for innovation and even the march toward all things social media Risk management planning risk identification qualitative and quantitative risk analysis contingency planning and risk monitoring and control are all addressed on a macro as well as micro level The book begins with a big picture view of analyzing technology trends to evaluate risk It shows how to conceptualize trends analyze their effect on infrastructure develop metrics to measure success and assess risk in adapting new technology The book takes an in depth look at project related risks It explains the fundamentals of project management and how project management relates to systems development and technology implementation Techniques for analyzing project risk include brainstorming the Delphi technique assumption analysis and decision analysis Metrics to track and control project risks include the Balance Scorecard project monitoring and reporting and business and technology metrics The book also takes an in depth look at the role of knowledge management and innovation management in identifying assessing and managing risk The book concludes with an executive s guide to the legal and privacy issues related to risk management as well overviews of risks associated with social media and mobile environments With its checklists templates and worksheets the book is an indispensable reference on risk and information technology

The CIO's Guide to Oracle Products and Solutions Jessica Keyes,2014-09-02 From operating systems to the cloud Oracle s products and services are everywhere and it has the market share to prove it Given the share diversity of the Oracle product line and the level of complexity of integration management can be quite a daunting task The CIO s Guide to Oracle Products and Solutions is the go to guide for all things Orac

A Manager's Guide to Software Engineering Roger S. Pressman,1993 Using a unique question and answer format coupled with pragmatic advice readers will find solutions to more than 450 commonly used questions and problems covering technology transitions the software development lifecycle methods for estimating project costs and effort risk analysis project scheduling quality assurance software configuration management and recent technological breakthroughs

Handbook of Research on Software Engineering and Productivity Technologies: Implications of Globalization Ramachandran, Muthu,de Carvalho, Rogério Atem,2009-08-31 This book provides integrated chapters on software engineering and enterprise systems focusing on parts integrating requirements engineering software engineering process and frameworks productivity technologies and enterprise systems Provided by publisher

Guide to Software Engineering Standards and Specifications Stan Magee,Leonard L. Tripp,1997 This directory presents an overview of 300 software development standards guides and technical reports The book contains extensive information on all the existing standards what they contain how they are used when to apply them and where to obtain copies

Marketing IT Products and Services Jessica Keyes,2009-09-14 Characterized by lightning quick innovation abrupt shifts in technology and shorter lifecycles the marketing of IT products

and services presents a unique set of challenges and often requires IT managers and developers to get involved in the marketing process. Marketing IT Products and Services is written to help busy IT managers and marketing managers get up to speed quickly and easily on what's needed to develop effective marketing strategies and campaigns. Focusing on the unique issues involved, this one-stop resource provides everything needed to understand the roles, responsibilities, and management techniques essential for the development of successful strategies. It covers strategic market planning, targeting markets, researching markets, understanding the competition, integrating market and sales strategies, nuances of global markets, developing marketing budgets, pricing, and implementing marketing campaigns. A plethora of appendices included on the book's downloadable resources allow you to get up and running right away. Aside from a complete marketing glossary, two complete marketing plans—one for a hardware product, the other for a software product—enable you to bypass the scut work of developing a marketing plan so you can focus on the creative aspects of marketing. Because a marketing plan is closely aligned with an organization's business and strategic plans, this book provides you with templates for both of these, as well as a template for that all-important business plan executive summary. The downloadable resources also feature loads of fill-in templates, including customer and competitor analysis, surveys, sample press releases, letters of agreement, demographic and target market worksheets, and cost-benefit forms. If you have a marketing need, this book has an effective template to meet that need.

Software Engineering Handbook, 1986

Managing IT Performance to Create Business Value Jessica Keyes, 2016-09-15

Managing IT Performance to Create Business Value provides examples, case histories, and current research for critical business issues such as performance measurement and management, continuous process improvement, knowledge management, risk management, benchmarking, metrics selection, and people management. It gives IT executives strategies for improving IT performance and delivering value, plus it guides them in selecting the right metrics for their IT organizations. Additionally, it offers knowledge management strategies to mature an organization, shows how to manage risks to exploit opportunities and prepare for threats, and explains how to baseline an IT organization's performance and measure its improvement. Consisting of 10 chapters plus appendices, the book begins with an overview of performance-based strategic planning, after which it discusses the development of a quality improvement (QI) plan, establishing benchmarks, and measuring performance improvements. It covers how to design IT-specific measures and financial metrics, as well as the establishment of a software measurement program. From there, it moves on to designing people improvement systems and discusses such topics as leadership, motivation, recruitment, and employee appraisal. The final few chapters show how to use balanced scorecards to manage and measure knowledge-based social enterprising and to identify, analyze, and avoid risks. In addition to covering new methods and metrics for measuring and improving IT processes, the author looks at strategies for measuring product development and implementing continuous innovation. The final chapter considers customer value systems and explains how to use force field analysis to listen to customers with the goal of improving customer satisfaction and

operational excellence Software Engineering and CASE Tom Flecher, Jim Hunt, 1993 This important new book provides a road map for developing and implementing a software engineering infrastructure using CASE tools and other software engineering methodologies It explains the techniques tools procedures and supporting culture required to fully benefit from an advanced software development system *Handbook of Software Quality Assurance* G. Gordon Schulmeyer, James I. McManus, 1999 The industry's top guide to software quality completely updated Practical techniques for mission critical and commercial software Build a great software quality organization Prepare for ASQ Software Quality Engineer Certification Software quality assurance has never been more challenging nor more business critical In this completely updated guide sixteen of the world's leading SQA experts share their practical experience with the full range of techniques available for managing software quality Discover the best ways to organize staff and improve your software quality organization Learn how to make the most of inspections software configuration management Pareto charts metrics statistical methods CASE tools and other key SQA tools and approaches *Handbook of Software Quality Assurance Third Edition* shows you how to Hire the right software quality professionals and get the best from them Structure your software quality program for maximum effectiveness Understand the role of software quality assurance in supporting the SEI Capability Maturity Model Leverage proven quality techniques from other fields Learn today's best practices for managing SQA in commercial software customized mission critical software and embedded systems Master the specialized techniques standards guidelines and rules for managing software safety and walk through a state of the art SQA case study at Boeing Space Transportation's Systems Software organization Whether you're a software developer or customer if you want more reliable software this end to end guide will help you get it *Handbook of Software Engineering* Charles Ralph Vick, Chittoor V. Ramamoorthy, 1984

Systems Management for Information Technology and Software Engineering Andrew P. Sage, 1995-04-03 This new book on systems management discusses important concerns for the development of systems from the perspective of information technology information systems and software systems engineering It focuses on the systems management process for information technology and software development organizations **Applied Software Measurement : Global Analysis of Productivity and Quality** Capers Jones, 2008-04-11 Effectively forecast manage and control software across the entire project lifecycle Accurately size estimate and administer software projects with real world guidance from an industry expert Fully updated to cover the latest tools and techniques *Applied Software Measurement Third Edition* details how to deploy a cost effective and pragmatic analysis strategy You will learn how to use function points and baselines implement benchmarks and tracking systems and perform efficiency tests Full coverage of the latest regulations metrics and standards is included Measure performance at the requirements coding testing and installation phases Set function points for efficiency cost market share and customer satisfaction Analyze quality and productivity using assessments benchmarks and baselines Design and manage project cost defect and quality tracking systems Use object oriented reusable component Agile CMM and

XP methods Assess defect removal efficiency using unit tests and multistage test suites **A Guide to Software Configuration Management** Alexis Leon,2000 This comprehensive explanation of Software Configuration Management SCM provides a basic definition of SCM as a scientific tool that brings control to the developmental process and explains the procedures for SCM implementation in any organization It also reviews each phase in the software development life cycle and teaches how SCM can help software developers avoid pitfalls at every step **A Practical Guide to Logical Data Modeling** George Tillmann,1993 This book provides both the seasoned and novice designer with an understanding of logical data modeling the stepping stone to structuring viable software systems The basics of data modeling are presented in this clearly written guide focusing on entity relationships the most popular modeling approach in use today **Solving the Productivity Paradox** Jessica Keyes,1995 Bringing the power of TQM to bear on the realities of the corporate computing world this book uncovers why the IT revolution has failed to bring about once expected leaps in white collar productivity and how TQM techniques can be used to avoid or resolve a diverse range of productivity pitfalls

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