

Software Project Management Mcgraw Hill 5th Edition

Product verifiable, defensible, and achievable software estimates Based on data collected by the International Software Benchmarking Standards Group (ISBSG), Practical Software Project Estimation explains how to accurately forecast the size, cost, and schedule of software projects. Get expert advice on generating accurate estimates, minimizing risks, and planning and managing projects. Valuable appendixes provide estimation equations, delivery rate tables, and the ISBSG Repository demographics. Verify project objectives and requirements Determine, validate, and refine software functional size Produce indicative estimates using regression equations Predict effect and duration through comparison and analogy Build estimation frameworks Perform benchmarks using the ISBSG Repository Compare IFPUG, COSMIC, and FiSMA sizing methods Peter Hill is the chief executive officer and a director of the ISBSG. He has been in the information services industry for more than 40 years and has compiled and edited five books for the ISBSG.

A comprehensive reference presenting the critical concepts and theories all project managers must master, The AMA Handbook of Project Management compiles essays and advice from the field's top professionals. Compatible with the most recent edition of the Project Management Body of Knowledge® and featuring new data on the Project Management Office, the completely revised third edition shows readers how to:

- Establish project goals
- Implement planning on both the strategic and operational levels
- Manage the project life cycle and meet objectives
- Budget the project
- Handle the transition from project idea to project reality
- Manage political and resource issues

Packed with research-based information and advice from experienced practitioners—as well as new information on agile project management, Six Sigma projects, the use of social media, and the alignment of strategy and projects—this guide is a vital resource for everyone involved in project tasks.

ON TIME, ON BUDGET . . . MANAGE EVERY PROJECT LIKE A PRO In today's environment of tight turnarounds and even tighter budgets, the effective project manager is often considered the most valuable member of a workplace team. Project Management, Second Edition, provides a step-by-step introduction to the tools and techniques necessary to successfully spearhead your next project. This new edition has everything that made the original so popular, plus it has been updated to reflect new principles and strategies in team building, planning, estimating costs, managing project interfaces, and more--providing you with the kind of business savvy today's project manager is expected to possess. Learn how to: Stay on top of all aspects of your project: process, interpersonal, and organizational Forge a spirit of cooperation--and achievement--among diverse team members Manage all the contingencies--foreseen and unforeseen--that come up in every project

Schedule and coordinate projects seamlessly, start to finish! In today's ultracompetitive world of business, those in charge want results on time and on budget--and they're turning to project managers to deliver. Skilled project managers are in high demand, and the profession is growing at an unprecedented rate. The McGraw-Hill 36-Hour Course: Project Management, Second Edition, combines expert insight, advice based on realworld experience, and the latest developments into a single, concise package. In the span of 36 hours, you'll learn how to: Plan, launch, manage, and close projects Build the best team for each project Shape and drive a project using effective leadership Manage quality, costs, time, and risk Deploy the latest project management technologies Complete with chapter-ending self-tests and a comprehensive online final exam, The McGraw-Hill 36-Hour Course: Project Management, Second Edition, provides the guidance you need to manage any project

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under any conditions.

Project Management Handbook aims to help project managers imbibe these skills and deliver. It covers within its ambit project management techniques and practices employed for formulating a project and managing its scope and integration of scope-related parameters. Also organization, time resources, costs, quality, procurement, risks and information system are discussed. Besides this, it includes cases on engineering and construction to enable project managers appreciate the nuances of project management.

This unique volume explores cutting-edge management approaches to developing complex software that is efficient, scalable, sustainable, and suitable for distributed environments. Practical insights are offered by an international selection of pre-eminent authorities, including case studies, best practices, and balanced corporate analyses. Emphasis is placed on the use of the latest software technologies and frameworks for life-cycle methods, including the design, implementation and testing stages of software development. Topics and features:

- Reviews approaches for reusability, cost and time estimation, and for functional size measurement of distributed software applications
- Discusses the core characteristics of a large-scale defense system, and the design of software project management (SPM) as a service
- Introduces the 3PR framework, research on crowdsourcing software development, and an innovative approach to modeling large-scale multi-agent software systems
- Examines a system architecture for ambient assisted living, and an approach to cloud migration and management assessment
- Describes a software error proneness mechanism, a novel Scrum process for use in the defense domain, and an ontology annotation for SPM in distributed environments
- Investigates the benefits of agile project management for higher education institutions, and SPM that combines software and data engineering

This important text/reference is essential reading for project managers and software engineers involved in developing software for distributed computing environments. Students and researchers interested in SPM technologies and frameworks will also find the work to be an invaluable resource. Prof. Zaigham Mahmood is a Senior Technology Consultant at Debasis Education UK and an Associate Lecturer (Research) at the University of Derby, UK. He also holds positions as Foreign Professor at NUST and IIU in Islamabad, Pakistan, and Professor Extraordinaire at the North West University Potchefstroom, South Africa.

Although software development is one of the most complex activities carried out by man, sound development processes and proper project management can help ensure your software projects are delivered on time and under budget. Providing the know-how to manage software projects effectively, Introduction to Software Project Management supplies an accessible introduction to software project management. The book begins with an overview of the fundamental techniques of project management and the technical aspects of software development. This section supplies the understanding of the techniques required to mitigate uncertainty in projects and better control the complexity of software development projects. The second part illustrates the technical activities of software development in a coherent process—describing how to customize this process to fit a wide range of software development scenarios. Examines project management frameworks and software development standards, including ESA and NASA guidelines, PRINCE2®, and PMBOK® Addresses open source development practices and tools so readers can adopt best practices and get started with tools that are available for free Explains how to tailor the development process to different kinds of products and formalities, including the development of web applications Includes access to additional material for both practitioners and teachers at www.spmbook.com Supplying an analysis of existing development and management frameworks, the book describes how to set up an open-source tool infrastructure to manage projects. Since practitioners must be able to mix traditional and agile techniques effectively, the book covers both and explains how to use traditional techniques for planning and developing software components alongside agile methodologies. It does so in a manner that will help you to foster freedom and creativity in assembling the processes that will

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best serve your needs.

Software Project Management 5e

From its first appearance in 1995, this book has been consistently well received by tutors and students alike. Now with a revised and updated 3rd edition the authors have updated the original text to better reflect the latest developments in Software Project Management.

Updated concepts and tools to set up project plans, schedule work, monitor progress-and consistently achieve desired project results. In today's time-based and cost-conscious global business environment, tight project deadlines and stringent expectations are the norm. This classic book provides businesspeople with an excellent introduction to project management, supplying sound, basic information (along with updated tools and techniques) to understand and master the complexities and nuances of project management. Clear and down-to-earth, this step-by-step guide explains how to effectively spearhead every stage of a project-from developing the goals and objectives to managing the project team-and make project management work in any company. This updated second edition includes: * New material on the Project Management Body of Knowledge (PMBOK) * Do's and don'ts of implementing scheduling software* Coverage of the PMP certification offered by the Project Management Institute* Updated information on developing problem statements and mission statements* Techniques for implementing today's project management technologies in any organization-in any industry.

Annotation "Integrated IT Project Management: A Model-Centric Approach utilizes practical applications of real-world policies, roles and responsibilities, templates, process flows, and checklists for each of these three component processes. It shows how such processes ensure optimum utilization of people, process, and technology resources during the management and delivery of IT projects. The book provides insight into the key components of the Rational Unified Process from IBM Rational Corporation and the Project Management Body of knowledge PMBOK from the Project Management Institute (PMI) illustrating how they work together and align based on industry processing standards."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

This book constitutes the refereed proceedings of the 4th IFIP WG 8.1 Working Conference on Method Engineering, ME 2011, held in Paris, France, in April 2011. The 13 revised full papers and 6 short papers presented together with the abstracts of two keynote talks were carefully reviewed and selected from 30 submissions. The papers are organized in topical sections on situated method engineering, method engineering foundations, customized methods, tools for method engineering, new trends to build methods, and method engineering services.

Software Project Management

A Proven, Integrated Healthcare Information Technology Management Solution Co-written by a certified Project Management Professional and an M.D., Project Management for Healthcare Information Technology presents an effective methodology that encompasses standards and best practices from project management, information technology management, and change

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management for a streamlined transition to digital medicine. Each management discipline is examined in detail and defined as a set of knowledge areas. The book then describes the core processes that take place within each knowledge area in the initiating, planning, executing, controlling, and closing stages of a project. Real-world examples from healthcare information technology project leaders identify how the integrated approach presented in this book leads to successful project implementations. Coverage Includes: Integrating project, information technology, and change management methodologies PMBOK Guide process groups--initiating, planning, executing, controlling, and closing Project management knowledge areas--integration, scope, time, cost, quality, human resource, communication, risk, and procurement management IT management knowledge areas--user requirements, infrastructure, conversion, software configuration, workflow, security, interface, testing, cutover, and support management Change management knowledge areas--realization, sponsorship, transformation, training, and optimization management

Software project management is a crucial element in successful software and IT development, and requires students to develop an understanding of technical methodology and an appreciation of the many human factors that can play a part in software projects. The new fifth edition of Software Project Management has been fully revised and updated to help students to grasp these contrasting skills, and learn about new developments in the discipline. It provides both undergraduate and postgraduate students with a comprehensive introduction to software project management and has enjoyed a loyal following of users since the first edition published.

Until now, books available for information systems project management focused either on information technology or production and operations. Information Systems Project Management reflects new thinking about the need for balance between technology topics and production-operations issues needed to manage successful IS projects.

To build reliable, industry-applicable software products, large-scale software project groups must continuously improve software engineering processes to increase product quality, facilitate cost reductions, and adhere to tight schedules. Emphasizing the critical components of successful large-scale software projects, Software Project Management: A

Drawing on best practices identified at the Software Quality Institute and embodied in bodies of knowledge from the Project Management Institute, the American Society of Quality, IEEE, and the Software Engineering Institute, Quality Software Project Management teaches 34 critical skills that allow any manager to minimize costs, risks, and time-to-market. Written by leading practitioners Robert T. Futrell, Donald F. Shafer, and Linda I. Shafer, it addresses the entire project lifecycle, covering process, project, and people. It contains extensive practical resources-including downloadable checklists, templates, and forms.

Why do projects fail? The rate of project failure remains high despite the use of project management methodologies, bodies of knowledge and new technologies. Project Management explores the risk and complexity inherent in project management and the potential problems that can arise. Drawing on the author's real life experiences, the book suggests actions and techniques that can be taken to help detect, prevent and resolve problems before they can have a major impact on a project. Focusing on both PMBoK

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and PRINCE2 methodologies and packed full of real life examples and revision questions, Project Management is an ideal text for undergraduate, postgraduate and MBA students taking a module in project management. It will also be an invaluable resource for practicing project managers.

This book provides the software engineering fundamentals, principles and skills needed to develop and maintain high quality software products. It covers requirements specification, design, implementation, testing and management of software projects. It is aligned with the SWEBOK, Software Engineering Undergraduate Curriculum Guidelines and ACM Joint Task Force Curricula on Computing.

Few software projects are completed on time, on budget, and to their original specifications. Focusing on what practitioners need to know about risk in the pursuit of delivering software projects, Applied Software Risk Management: A Guide for Software Project Managers covers key components of the risk management process and the software development process, as well as best practices for software risk identification, risk planning, and risk analysis. Written in a clear and concise manner, this resource presents concepts and practical insight into managing risk. It first covers risk-driven project management, risk management processes, risk attributes, risk identification, and risk analysis. The book continues by examining responses to risk, the tracking and modeling of risks, intelligence gathering, and integrated risk management. It concludes with details on drafting and implementing procedures. A diary of a risk manager provides insight in implementing risk management processes. Bringing together concepts across software engineering with a project management perspective, Applied Software Risk Management: A Guide for Software Project Managers presents a rigorous, scientific method for identifying, analyzing, and resolving risk.

The practical e-guide that gives you the skills to succeed as a project manager. Discover how to improve your project management skills by defining a project brief, identifying stakeholders, and building a strong team. You'll also learn useful tips for initiating projects, setting deadlines, and managing your budgets. Essential Managers gives you a practical "how-to" approach with step-by-step instructions, tips, checklists, and "ask yourself" features showing you how to focus your energy, manage change, and make an impact. DK's Essential Managers series contains the knowledge you need to be a more effective manager and hone your management style. Whether you're new to project management or simply looking to sharpen your existing skills, this is the e-guide for you.

Software Project Management: Measures for Improving Performance focuses on more than the mechanics of project execution. By showing the reader how to identify and solve real world problems that put schedule, cost, and quality at risk, this guide gets to the heart of improving project control and performance.

- Identify measurement needs and goals
- Determine what measures to use to maximize the value of data
- Interpret data and report the results
- Diagnose quality and productivity issues
- Use metrics data to solve real problems

This is a must-read for project managers and engineering managers working in organizations where deadlines are tight, the workload is daunting, and daily crises are the rule rather than the exception. The text provides simple run rate data through progressively advanced measures, as well as:

- Examples that show you how to combine measures to solve

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complex problems • Exercises that guide you through best practices for metric program development and implementation From beginning to end, *Software Project Management: Measures for Improving Performance* guides you to improved project performance — long before you turn the last page!

This book explains the many techniques which have been developed to help you manage projects successfully using very clear objectives within a commercial environment. Examples are drawn from construction, civil engineering, product launches, publishing, computer hardware and software, scientific projects and aerospace.

Taking a unique approach, this practical introduction gives readers the full flavor of software project management and detailed coverage of the entire development process, not just the lists of management tasks other books provide. This approach leads the reader through various stages of the development process in a pragmatic and readable way, with a diversity of topics explained. The book describes how to manage and successfully deliver large, complex, and expensive systems that can be composed of millions of line of software code, being developed by numerous groups throughout the globe, that interface with many hardware items being developed by geographically dispersed companies, where the system also includes people, policies, constraints, regulations, and a myriad of other factors. It focuses on how to seamlessly integrate systems, satisfy the customer's requirements, and deliver within the budget and on time. The guide is essentially a "shopping list" of all the activities that could be conducted with tailoring guidelines to meet the needs of each project.

Managing a software development project is a complex process. There are lots of deliverables to produce, standards and procedures to observe, plans and budgets to meet, and different people to manage. Project management doesn't just start and end with designing and building the system. Once you've specified, designed and built (or bought) the system it still needs to be properly tested, documented and settled into the live environment. This can seem like a maze to the inexperienced project manager, or even to the experienced project manager unused to a particular environment. *A Hacker's Guide to Project Management* acts as a guide through this maze. It's aimed specifically at those managing a project or leading a team for the first time, but it will also help more experienced managers who are either new to software development, or dealing with a new part of the software life-cycle. This book: describes the process of software development, how projects can fail and how to avoid those failures outlines the key skills of a good project manager, and provides practical advice on how to gain and deploy those skills takes the reader step-by-step through the main stages of the project, explaining what must be done, and what must be avoided at each stage suggests what to do if things start to go wrong! The book will also be useful to designers and architects, describing important design techniques, and discussing the important discipline of Software Architecture. This new edition: has been fully revised and updated to reflect current best practices in software development includes a range of different life-cycle models and new design techniques now uses the Unified Modelling Language throughout

* The first book to truly apply the theory, processes, practices, and techniques of project management to strategic planning * New to this edition: risk management, earned value, project recovery, project maturity models, partnering, PM certification, and much

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more

Learn best practices and proven methods from project management professionals—and apply these skills as you work with Microsoft Project. In this practical guide, project management expert Bonnie Biafore shows you how to manage projects efficiently and effectively, sharing the real-world experiences of project managers in several industries. You'll learn how to put the best practices and hard-won lessons of experts to work on your critical projects. Sharpen the skills you need to manage projects expertly—from start to finish Communicate effectively with project stakeholders, management, and team members Apply methods to break down the project into small, manageable pieces Define work assignments, choose resources, and build project schedules Accurately estimate project costs and work with a budget Identify project changes and manage risks Track progress and balance priorities without sacrificing quality Document project history and lessons learned to help improve future projects Project files available on the companion website.

Not long ago project management was perceived as a highly technical endeavor with applications to highly specialized industries. Times have changed—and so have the collective perceptions about project management. Today project management skills are applied throughout a wide range of businesses and industries. Successful project managers are defined now not only by their skill in dealing with issues of planning, scheduling, and budgeting, but also by their ability to manage people. Clifford Gray and Erik Larson, both of Oregon State University, are aware of this evolution and have used the Third Edition of *Project Management: The Managerial Process* to address these shifts. This highly-qualified author team provides readers with a complete picture of project management. Technical issues are addressed thoroughly, but unlike similar books on this subject, *Project Management: The Managerial Process* presents them in context, demonstrating how project management techniques can be applied in a wide variety of businesses, while emphasizing the importance of accounting for the human element in the successful management of all types of projects. Case studies and "Snapshot from Practice" boxes are among the ways readers learn throughout this text. A pedagogically rich CD-ROM, and a second CD-ROM containing a trial version of Microsoft Project, are also available with all new copies of this text. Once again, the authors have succeeded in providing readers with a complete picture of project management: not only "what to do" and "how to do it," but also why it is done. Book jacket.

Towards collaborative business ecosystems Last decade was fertile in the emerging of new collaboration mechanisms and forms of dynamic virtual organizations, leading to the concept of dynamic business ecosystem, which is supported (or induced ?) by the progress of the ubiquitous I pervasive computing and networking. The new technologies, collaborative business models, and organizational forms supported by networking tools "invade" all traditional businesses and organizations what requires thinking in terms of whole systems, i. e. seeing each business as part of a wider economic ecosystem and environment. It is also becoming evident that the agile formation of very dynamic virtual organizations depends on the existence of a proper longer-term "embedding" or "nesting" environment (e. g. regional industry cluster), in order to guarantee certain basic requirements such as trust building ("Trusting your partner" is a gradual and long process); common interoperability, ontology, and distributed collaboration infrastructures; agreed business practices (requiring substantial engineering Ire-engineering efforts); a sense of community ("we vs. the others"), and some sense of stability (when is a dynamic state or a stationary state useful). The more frequent situation is the case in which this "nesting" environment is formed by organizations located in a common region, although geography is not a major facet when cooperation is supported by computer networks.

This Three-Volume-Set constitutes the refereed proceedings of the Second International Conference on Software Engineering and Computer

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Systems, ICSECS 2011, held in Kuantan, Malaysia, in June 2011. The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on software engineering; network; bioinformatics and e-health; biometrics technologies; Web engineering; neural network; parallel and distributed e-learning; ontology; image processing; information and data management; engineering; software security; graphics and multimedia; databases; algorithms; signal processing; software design/testing; e- technology; ad hoc networks; social networks; software process modeling; miscellaneous topics in software engineering and computer systems.

This text provides information on core software project management practices. It includes extensive examples and a running, start-to-finish case study. It is aimed at all project managers and software professionals who may manage projects.

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