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Critical Chain - Eliyahu M Goldratt - 2017-10-03

This fast-paced business novel does for project management what The Goal and It's Not Luck have done for production and marketing. Goldratt?s novels have traditionally slain sacred cows and delivered new ways of looking at processes which seem like common sense once you read them. Critical Chain is no exception. In perhaps Eli?s most readable book yet, two of the established principles of project management, the engineering estimate and project milestones, are found wanting and dismissed, and other established principles are up for scrutiny - as Goldratt once more applies his Theory of Constraints. The approach is radical, yet clear, understandable and logical. New techniques are introduced, and Project Buffers, Feeding Buffers, Limit Multitasking, Improved Communications and Correct Measurements make them work. Goldratt even handles the complicated statistics of dispersed variability versus accumulated variability so deftly you won?t even be aware of learning about them - they?ll just seem like more common sense! Critical Chain is critical reading for anyone who deals with projects. If you use block diagrams, drawings or charts to keep track of your activities, you are managing a project - and this book is for you.

Critical Chain Project Management, Third Edition - Lawrence P. Leach - 2014-03-01

This fast-paced business novel does for project management what The Goal and It's Not Luck have done for production and marketing. Goldratt?s novels have traditionally slain sacred cows and delivered new ways of looking at processes which seem like common sense once you read them. Critical Chain is no exception. In perhaps Eli?s most readable book yet, two of the established principles of project management, the engineering estimate and project milestones, are found wanting and dismissed, and other established principles are up for scrutiny - as Goldratt once more applies his Theory of Constraints. The approach is radical, yet clear, understandable and logical. New techniques are introduced, and Project Buffers, Feeding Buffers, Limit Multitasking, Improved Communications and Correct Measurements make them work. Goldratt even handles the complicated statistics of dispersed variability versus accumulated variability so deftly you won?t even be aware of learning about them - they?ll just seem like more common sense! Critical Chain is critical reading for anyone who deals with projects. If you use block diagrams, drawings or charts to keep track of your activities, you are managing a project - and this book is for you.
Adapting or evolving from Scrum or traditional Waterfall, and more. For every step of your journey, you’ll find pragmatic advice, useful checklists, and actionable lessons. This truly is “Kanban in a box”: all you need to deliver breakthrough value and quality. Use Kanban techniques to: Start delivering continuous value with your current team and project Master five quick steps for completing work backlogs Plan and staff new projects more effectively Minimize work in progress and quickly adjust to change Eliminate artificial meetings and prolonged stabilization Improve and enhance customer engagement Visualize workflow and fix revealed bottlenecks Drive quality upstream Integrate Kanban into large projects Optimize sustained engineering (contributed by James Waletzky) Expand Kanban beyond software development

Introducing an important new expression of management science called the Theory of Constraints (TOC), this book helps busy executives and professionals quickly learn and implement TOC principles. Introduction to the Theory of Constraints (TOC) Management System organizes several proven TOC principles, processes, and solutions into a TOC management system that has been successfully applied to everything from manufacturing industries to health care. The Theory of Constraints is based on the scientific method that has been developed and refined for nearly three decades by Dr. Eli Goldratt. The TOC management system offers management techniques that are sound, practical, and can be applied to nearly every company, project, or personal endeavor imaginable. It has created fundamentally new ways of managing, and has dramatically improved the ability of hundreds of thousands of individuals to make smart decisions on a daily basis. If you’ve read Eli Goldratt’s bestselling books and wondered how to put his ideas to work, Introduction to the Theory of Constraints (TOC) Management System tells what TOC is, where it came from, who uses it, and how to get started with it.

Agile Project Management with Kanban - Eric Brechner - 2015-02-25
Use Kanban to maximize efficiency, predictability, quality, and value With Kanban, every minute you spend on a software project can add value for customers. One book can help you achieve this goal: Agile Project Management with Kanban. Author Eric Brechner pioneered Kanban within the Xbox engineering team at Microsoft. Now he shows you exactly how to make it work for your team. Think of this book as “Kanban in a box”: open it, read the quickstart guide, and you’re up and running fast. As you gain experience, Brechner reveals powerful techniques for right-sizing teams, estimating, meeting deadlines, deploying components and services, adapting or evolving from Scrum or traditional Waterfall, and more. For every step of your journey, you’ll find pragmatic advice, useful checklists, and actionable lessons. This truly is “Kanban in a box”: all you need to deliver breakthrough value and quality. Use Kanban techniques to: Start delivering continuous value with your current team and project Master five quick steps for completing work backlogs Plan and staff new projects more effectively Minimize work in progress and quickly adjust to change Eliminate artificial meetings and prolonged stabilization Improve and enhance customer engagement Visualize workflow and fix revealed bottlenecks Drive quality upstream Integrate Kanban into large projects Optimize sustained engineering (contributed by James Waletzky) Expand Kanban beyond software development

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Use Kanban to maximize efficiency, predictability, quality, and value With Kanban, every minute you spend on a software project can add value for customers. One book can help you achieve this goal: Agile Project Management with Kanban. Author Eric Brechner pioneered Kanban within the Xbox engineering team at Microsoft. Now he shows you exactly how to make it work for your team. Think of this book as “Kanban in a box”: open it, read the quickstart guide, and you’re up and running fast. As you gain experience, Brechner reveals powerful techniques for right-sizing teams, estimating, meeting deadlines, deploying components and services,
This dynamic scheduling point of view implicitly assumes that the usability of a project’s baseline schedule is rather limited and only acts as a point of reference in the project life cycle. Consequently, a project schedule should especially be considered as nothing more than a predictive model that can be used for resource efficiency calculations, time and cost risk analyses, project tracking and performance measurement, and so on. In this book, the three dimensions of dynamic scheduling are highlighted in detail and are based on and inspired by a combination of academic research studies at Ghent University (www.ugent.be), in-company trainings at Vlerick Business School (www.vlerick.com) and consultancy projects at OR-AS (www.or-as.be). First, the construction of a project baseline schedule is a central theme throughout the various chapters of the book, and is discussed from a complexity point of view with and without the presence of project resources. Second, the creation of an awareness of the weak parts in a baseline schedule is discussed at the end of the two baseline scheduling parts as schedule risk analysis techniques that can be applied on top of the baseline schedule. Third, the baseline schedule and its risk analyses can be used as guidelines during the project control step where actual deviations can be corrected within the margins of the project’s time and cost reserves. The second edition of this book has seen corrections, additions and amendments in detail throughout the book. Moreover Chapter 15 on "Dynamic Scheduling with ProTrack" has been completely rewritten and extended with a section on "ProTrack as a research tool".

Project Management in the Fast Lane - Robert C. Newbold - 1998-03-25
This cutting edge, "how to" manual details proven methods for turning around chronically late, overbudget, and underperforming projects. Project Management in the Fast Lane explains how Theory of Constraints tools can be applied to achieve effective, breakthrough solutions in virtually any environment. It includes a complete discussion of the Criti

Project Management with Dynamic Scheduling - Mario Vanhoucke - 2013-11-29
The topic of this book is known as dynamic scheduling, and is used to refer to three dimensions of project management and scheduling: the construction of a baseline schedule and the analysis of a project schedule’s risk as preparation of the project control phase during project progress. This dynamic scheduling point of view implicitly assumes that the usability of a project’s baseline schedule is rather limited and only acts as a point of reference in the project life cycle. Consequently, a project schedule should especially be considered as nothing more than a predictive model that can be used for resource efficiency calculations, time and cost risk analyses,
Programming and Scheduling Techniques - Thomas Uher - 2012-03-29
This textbook focuses on the theoretical and practical skills needed when planning and scheduling projects. As well as serving as a guide to best practice, a broad range of techniques are examined and compared to help readers understand their full range of options. Whilst this book will also prove invaluable as a reference for professionals, it has been written for students studying project management modules with planning content.

The Practice Standard for Scheduling - Third Edition provides the latest thinking regarding good and accepted practices in the area of scheduling for a project. Aligned with the A Guide to the Project Management Body of Knowledge (PMBOK(R) Guide) - Sixth Edition, this updated practice standard expounds on the information contained in Section 6 on Project Schedule Management of the PMBOK(R) Guide. In this new edition of the practice standard, you will learn to identify the elements of a good schedule model, its purpose, use, and benefits. You will also discover what is required to produce and maintain a good schedule model. Also included in the Third Edition: Description of scheduling - Definition of schedule model - Uses and benefits of the schedule model - Definitions of key terms and steps for scheduling - Detailed descriptions of scheduling components - Guidance on the principles and concepts of schedule model creation and use - Descriptions of schedule model principles and concepts - Differentiations in schedule model, schedule model instances, and presentations - Detailed descriptions of critical path method, critical chain, program evaluation and review technique (PERT), rolling wave planning, and Monte Carlo simulation - Uses and applications of adaptive project management approaches, such as agile, in scheduling - Guidance and information on generally accepted good practices associated with the planning, development, maintenance, communication, and reporting processes of an effective schedule model.
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effective schedule model

Pmi-Rmp Exam Prep Study Guide - Belinda Fremouw - 2017-04-12
Ideal for: - Self Study - Study Groups - Training Courses Based on A Guide
to the Project Management Body of Knowledge (PMBOK(R) Guide) - Fifth
Edition and the Practice Standard for Project Risk Management, this
comprehensive PMI-RMP Exam Prep Study Guide provides learners with all
of the information needed to be successful on the PMI-RMP exam. Exercises
throughout the Study Guide ensure maximum learner engagement and
retention. Aligned with: - PMI-RMP Examination Content Outline - Practice
Standard for Project Risk Management - PMBOK(R) Guide - Fifth Edition

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Ideal for: - Self Study - Study Groups - Training Courses Based on A Guide
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throughout the Study Guide ensure maximum learner engagement and
retention. Aligned with: - PMI-RMP Examination Content Outline - Practice
Standard for Project Risk Management - PMBOK(R) Guide - Fifth Edition

It's Not Luck - Eliyahu M. Goldratt - 2017-09-29
There has been a shift of policy at board level. Cash is needed and Alex
Rogo’s companies are to be put on the block. Alex faces a cruel dilemma. If
for the maximum return: if he fails they will be closed down. Either way Alex
and his team will be out of work. It looks like lose-lose, both for Alex and for
his team. And as if he doesn’t have enough to deal with, his two children
have become teenagers. As Alex grapples with problems at work and at
home, we begin to understand the full scope of Eli Goldratt’s powerful
techniques. It’s Not Luck reveals more of the Thinking Process-techniques
that consistently produce win-win solutions to seemingly impossible
problems.

Lean Project Management - Lawrence P. Leach - 2006-07
Lean Project Management takes you through all of the steps to plan and
execute projects using the exciting new Lean and Critical Chain Project
Management (CCPM) methods. Larry Leach is uniquely qualified to
integrate CCPM and Lean practices in a practical way that works for all
kinds of projects, large and small. This book is a second edition of Eight
Secrets to Supercharge Your Projects with CCPM, which has received
outstanding reader reviews.

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**Parkinson’s Law** - C. Northcote Parkinson - 1984-02-12

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“There is no doubt that this is a truly original and groundbreaking work in applying the Theory of Constraints. I run a services company and learned some things about the services business. Anyone involved in large services companies needs to look at what John is proposing. I will definitely quote this material frequently.” Chad Smith, Managing Partner, Constraints Management Group “The information presented in this book is badly needed by service providers who struggle to balance supply and demand with their resources.” Carol A. Ptak, CFPIM, CIRM “The techniques that John brings to light in this book are the bridge from the vision of Dr. Goldratt’s work to the successful implementation in a range of services firms.” From the Foreword by Erik Bush, Vice President, IBM Global Services

Discover the powerful Theory of Constraints (TOC), and use it to drive continuous performance improvement in any services organization Identify the hidden constraints that are limiting your organization, and manage or eliminate them Use TOC to improve the way you manage resources, projects, processes, finance, marketing, and sales Determine whether your organization faces an internal or external constraint, manage that constraint accordingly, and anticipate where the next constraint will arise Release latent capacity shrouded by common business practices Simplify processes that have grown unmanageably complex Optimize your enterprise as a whole rather than suboptimizing individual business units Get buy-in to fundamental changes in strategy, tactics, and operations Managing services is extremely challenging, and traditional “industrial” management techniques are no longer adequate. In Reaching the Goal, Dr. John Arthur Ricketts presents a breakthrough management approach that embraces what makes services different: their diversity, complexity, and unique distribution methods.

generation’s most successful management methodology thoroughly adapting it to the needs of today’s professional, scientific, and technical services businesses. He reveals how to identify the surprising constraints that limit your organization’s performance, execute more effectively within those constraints, and then loosen or even eliminate them. This book’s relentlessly practical techniques reflect several years of advanced IBM research and consulting with enterprise clients. Step-by-step, Ricketts shows how to apply them throughout your most crucial business functions from project management to finance, process improvement to sales and marketing. Whatever your role in improving service delivery, processes, or profitability, this book gives you the tools to reach your goals and go beyond them Identify, manage, and overcome your key constraints. Five steps to uncovering and addressing the real obstacles to improved performance. Optimize core business functions, one step at a time. Improve the way you manage resources, projects, processes, finance, and marketing. Implement TOC rapidly and effectively. Get buy-in, deploy infrastructure, and provide the right IT support.


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and increasing quality. Drawing its components together into a where the next constraint will arise. Release latent capacity shrouded by common business practices. Simplify processes that have grown unmanageably complex. Optimize your enterprise as a whole rather than suboptimizing individual business units. Get buy-in to fundamental changes in strategy, tactics, and operations. Managing services is extremely challenging, and traditional “industrial” management techniques are no longer adequate. In Reaching the Goal, Dr. John Arthur Ricketts presents a breakthrough management approach that embraces what makes services different: their diversity, complexity, and unique distribution methods. Ricketts draws on Eli Goldratt’s Theory of Constraints (TOC), one of this generation’s most successful management methodologies, thoroughly adapting it to the needs of today’s professional, scientific, and technical services businesses. He reveals how to identify the surprising constraints that limit your organization’s performance, execute more effectively within those constraints, and then loosen or even eliminate them. This book’s relentlessly practical techniques reflect several years of advanced IBM research and consulting with enterprise clients. Step-by-step, Ricketts shows how to apply them throughout your most crucial business functions from project management to finance, process improvement to sales and marketing. Whatever your role in improving service delivery, processes, or profitability, this book gives you the tools to reach your goals and go beyond them. Identify, manage, and overcome your key constraints. Five steps to uncovering and addressing the real obstacles to improved performance. Optimize core business functions, one step at a time. Improve the way you manage resources, projects, processes, finance, and marketing. Implement TOC rapidly and effectively. Get buy-in, deploy infrastructure, and provide the right IT support.

Location-Based Management for Construction - Russell Kenley - 2006-09-27
With extensive case studies for illustration, this is a practitioner’s guide to an entirely new production system for construction management using flowline scheduling. Covering the entire process of presenting a comprehensive management system - from design, through measurement, scheduling, and visualization and control - its emphasis is on reducing cost and increasing quality. Drawing its components together into a management system, the authors not only include theory and explanations of how and why it works, but also examine and present a suite of methods for successful project implementation. Perfect as a how-to guide for researchers and advanced construction students to discover the simple application of the new techniques, and invaluable for acquiring the practical tools for planning and controlling projects.

The definitive guide to the theory of constraints. In this authoritative volume, the world's top Theory of Constraints (TOC) experts reveal how to implement the ground-breaking management and improvement methodology developed by Dr. Eliyahu M. Goldratt. Theory of Constraints Handbook offers an in-depth examination of this revolutionary concept of bringing about global organization performance improvement by focusing on a few leverage points of the system. Clear explanations supplemented by examples and case studies define how the theory works, why it works, what issues are resolved, and what benefits accrue, and demonstrate how TOC can be applied to different industries and situations. Theory of Constraints Handbook covers: Critical Chain Project Management for realizing major improvements in delivering projects on time, to specification, and within management system, the authors not only include theory and explanations of how and why it works, but also examine and present a suite of methods for successful project implementation. Perfect as a how-to guide for researchers and advanced construction students to discover the simple application of the new techniques, and invaluable for acquiring the practical tools for planning and controlling projects.
Guide-Sixth Edition / Agile Practice Guide Bundle (HINDI) - Project
maximizing throughput and minimizing flow time Performance measures for
applying Throughput Accounting to improve organizational performance
Strategy, marketing, and sales techniques designed to increase sales
closing rates and Throughput Thinking Processes for simple and complex
environments TOC methods to ensure that services actions support
escalating demand for services while retaining financial viability Integrating
the TOC Thinking Processes, the Strategy and Tactic Tree, TOC
measurements, the Five Focusing Steps of TOC, and Six Sigma as a system
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Handbook covers: Critical Chain Project Management for realizing major
improvements in delivering projects on time, to specification, and within
budget Drum-Buffer-Rope (DBR), Buffer Management, and distribution for
maximizing throughput and minimizing flow time Performance measures for
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tools for sustainable improvement

A Guide to the Project Management Body of Knowledge (PMBOK(R)
Management Institute - 2019-08-05
To support the broadening spectrum of project delivery approaches, PMI is
offering A Guide to the Project Management Body of Knowledge (PMBOK®
Guide) – Sixth Edition as a bundle with its latest, the Agile Practice Guide.
The PMBOK® Guide – Sixth Edition now contains detailed information
about agile; while the Agile Practice Guide, created in partnership with
Agile Alliance®, serves as a bridge to connect waterfall and agile. Together
they are a powerful tool for project managers. The PMBOK® Guide – Sixth
Edition – PMI's flagship publication has been updated to reflect the latest
good practices in project management. New to the Sixth Edition, each
knowledge area will contain a section entitled Approaches for Agile,
Iterative and Adaptive Environments, describing how these practices
integrate in project settings. It will also contain more emphasis on strategic
and business knowledge—including discussion of project management
business documents—and information on the PMI Talent Triangle™ and the
essential skills for success in today's market. Agile Practice Guide has been
developed as a resource to understand, evaluate, and use agile and hybrid
agile approaches. This practice guide provides guidance on when, where,
and how to apply agile approaches and provides practical tools for
practitioners and organizations wanting to increase agility. This practice
guide is aligned with other PMI standards, including A Guide to the Project
Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was
developed as the result of collaboration between the Project Management
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A Guide to the Project Management Body of Knowledge (PMBOK(R)
Guide-Sixth Edition / Agile Practice Guide Bundle (HINDI) - Project
Management Institute - 2019-08-05
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developed as the result of collaboration between the Project Management
Institute and the Agile Alliance.

**Agile Management for Software Engineering** - David J. Anderson -
2003-09-17

A breakthrough approach to managing agile software development, Agile
methods might just be the alternative to outsourcing. However, agile
development must scale in scope and discipline to be acceptable in the
boardrooms of the Fortune 1000. In Agile Management for Software
Engineering, David J. Anderson shows managers how to apply management
science to gain the full business benefits of agility through application of the
focused approach taught by Eli Goldratt in his Theory of Constraints.
Whether you're using XP, Scrum, FDD, or another agile approach, you'll
learn how to develop management discipline for all phases of the
engineering process, implement realistic financial and production metrics,
and focus on building software that delivers maximum customer value and
outstanding business results.Coverage includes: Making the business case
for agile methods: practical tools and disciplines How to choose an agile
method for your next project Breakthrough application of Critical Chain
Project Management and constraint-driven control of the flow of value
Defines the four new roles for the agile manager in software projects—and
competitive IT organizations Whether you're a development manager,
project manager, team leader, or senior IT executive, this book will help you
achieve all four of your most urgent challenges: lower cost, faster delivery,
improved quality, and focused alignment with the business.

**Advanced Multi-Project Management** - Gerald I. Kendall - 2012-11-02

Even in a well-managed multi-project environment, it is not unusual to see
half of all projects completed either late, over budget or with cuts to
original scope. However, the proven approach presented in Advanced Multi-
Project Management has enabled large, medium, and even small
organizations to consistently complete their projects faster, within original
scope and budget, and increase the number of projects executed with the
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**Elements of Causal Inference** - Jonas Peters - 2017-11-29
A concise and self-contained introduction to causal inference, increasingly important in data science and machine learning. The mathematization of causality is a relatively recent development, and has become increasingly important in data science and machine learning. This book offers a self-contained and concise introduction to causal models and how to learn them from data. After explaining the need for causal models and discussing some of the principles underlying causal inference, the book teaches readers how to use causal models: how to compute intervention distributions, how to infer causal models from observational and interventional data, and how causal ideas could be exploited for classical machine learning problems. All of these topics are discussed first in terms of two variables and then in the more general multivariate case. The bivariate case turns out to be a particularly hard problem for causal learning because there are no conditional independences as used by classical methods for solving multivariate cases. The authors consider analyzing statistical asymmetries between cause and effect to be highly instructive, and they report on their decade of intensive research into this problem. The book is accessible to readers with a background in machine learning or statistics, and can be used in graduate courses or as a reference for researchers. The text includes code snippets that can be copied and pasted, exercises, and an appendix with a summary of the most important technical concepts.

**The Internet Encyclopedia** - Hossein Bidgoli - 2004
The Internet Encyclopedia in a 3-volume reference work on the internet as a business tool, IT platform, and communications and commerce medium.

**Management Dynamics** - John A. Caspari - 2004-12-07
here's an in-depth, step-by-step analysis defining the critical ingredients essential to achieving ongoing improvement and a robust bottom line! focusing on practical, dynamic solutions for weaknesses in the interdependent parts of an organization, management dynamics provides a comprehensive introduction to the theory of constraints (toc) in profit-oriented organizations, complete with the crucial but oft-missing pieces of the constraint theory—a fully integrated and supporting accounting system and the dynamic motivator to drive ongoing improvement in the bottom line. order your copy today!

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optimization of construction duration and schedule robustness based on hybrid greywolf optimizer with sine cosine algorithm - mengqi zhao -
construction duration and schedule robustness are of great importance to ensure efficient construction. however, the current literature has neglected the importance of schedule robustness. relatively little attention has been paid to schedule robustness via deviation of an activity’s starting time, which does not consider schedule robustness via structural deviation caused by the logical relationships among activities. this leads to a possibility of deviation between the planned schedule and the actual situation.

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project scheduling under resource constraints - rainer kolisch - 2013-03-09
this book introduces the field of resource-constrained project scheduling. state-of-the-art reviews of optimal and heuristic procedures are provided for classical project scheduling models. furthermore, new models which are relevant for practical problem settings, are introduced. the main emphasis is on newly developed competitive heuristic methods. contents: introduction. - description of the problems. - classification of schedules. - characterisation and generation of instances. - the single-mode project scheduling problem. - the multi-mode project scheduling problem. - project scheduling with given deadline. - project scheduling with setup times. - applications to production management. - concluding remarks. - list of notations. - list of abbreviations.

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managing high-technology programs and projects - russell d.
Managing High-Technology Programs and Projects - Russell D. Archibald - 2003-03-13
A well-known author within the field: Russell Archibald is widely known in the project management field. He helped to found the Project Management Institute, and he is a former principal with Integrated Project Systems, a consulting firm that specializes in process and system implementation and training in project management for high-tech corporations and agencies. * The definitive book on managing high-tech initiatives: This book fulfills a long-standing need for a comprehensive, practical and unified description of the business of managing complex programs and projects. It provides detailed coverage of all aspects of complex project management, with emphasis on those involving advanced technology.

The Project Management Question and Answer Book - Michael W. Newell - 2004
What is a project charter? How about a work breakdown structure? Do you know the basic steps behind risk quantification? And why is it important to be acquainted with Goldratt's critical chain theory? The Project Management Question and Answer Book is a one-stop reference that both beginning and experienced project managers will use in countless on-the-job situations. Providing the answers to critical questions, from the simplest to the most advanced, the book is arranged to get you the information you need the moment you need it. You'll find helpful explanations of crucial project management issues, including: * Why PM is useful to you and your organization * How to interact with project stakeholders to maximize productivity * How to establish realistic cost, schedule, and scope baselines * What management techniques can be used to motivate teams * What methods you can use for evaluating project team performance Packed with case studies and examples, The Project Management Question and Answer Book is an indispensable guide covering everything from estimates, quality control, and communications, to time-, risk-, and human resource management. It is a practical, constantly usable resource for understanding fundamental project management issues and implementing workable solutions.

Zohar, the Book of Enlightenment - Daniel Chanan Matt - 1983
This is the first translation with commentary of selections from The Zohar, the major text of the Kabbalah, the Jewish mystical tradition. This work was
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**Robustness Development and Reliability Growth** - John P. King - 2010-03-25  
This book integrates key tools and processes into a comprehensive program for developing more robust and reliable technology-based products. Drawing on their extensive product development experience, the authors present a complete process for ensuring product performance throughout the entire lifecycle, from understanding customers’ needs through manufacturing and post-launch support. The authors begin by presenting broad insights and high-level strategies for improving product quality. Next, they demonstrate how to implement robustness and reliability strategies that complement existing governance and decision processes. A section on tools and methods shows how to institutionalize best practices and apply them consistently. Finally, they tie strategies, decisions, and methods together through a case study project. Product developers will learn how to understand critical drivers of value in technology products, including reliability and durability, implement a process model and roadmap for improving reliability and robustness, increase robustness early in development, leading to shorter cycle times in later phases, improve the stability of production performance under stress conditions, assess both organizational and process capabilities for delivering robust and reliable products, understand and manage customer-driven requirements, use tools including descriptive and inferential statistics and DOE-based empirical models, and support design concepts with rigorous analyses of alternatives. Products and processes delivering higher value to customers, products with higher reliability and longer useful lives, and processes with lower costs and higher capabilities will be developed. Development projects having shorter, more predictable cycle times, and readers are introduced to many thought leaders whose writings can be sources of further learning. This book is a valuable resource for anyone responsible for delivering reliable, profitable technology products, including general managers, program managers, engineers, scientists, and reliability and quality professionals.
effective project management - robert k. wysocki - 2011-02-25
with 200 pages of new content, the fifth edition of this popular guide gives new or veteran project managers a comprehensive overview of all of the best-of-breed project management approaches and tools today, including traditional (linear and incremental), agile (iterative and adaptive), and extreme. step-by-step instruction and practical case studies show you how to use these tools effectively to achieve better outcomes of projects at hand. plus, the book provides full coverage on managing continuous process improvement, procurement management, managing distressed projects, and managing multiple team projects. the companion web site includes exercises and solutions that accompany the project management instruction in the book.

the ama handbook of project management - paul c. dinsmore - 2018-11-13
an essential resource presenting state-of-the-art theory and process of project management, the ama handbook of project management has long been considered the authoritative guide. managing complex projects can stretch you to the limits. but with a book full of experts coaching you each step of the way, you'll never be baffled, blocked, or misdirected again. packed with essays and insights from the field's top professionals, the ama handbook of project management is the resource professionals and students rely on for its practical guidance and big picture overview of the entire field: scheduling and budgeting, engaging stakeholders, measuring performance, managing multiple projects, resolving conflicts, using agile practices, and more. whether you need advice keeping projects on track or help preparing for certification, this new edition explains every principle, process, and development. revised to reflect the latest changes to a guide to the project management body of knowledge (pmbok®), the fifth edition includes new information on how to: close the strategy-implementation gap tap the power of digital transformation navigate m&a environments revise your methods for nonprofit settings keep pace with your evolving role and more packed with models, case studies, and in-depth solutions, this trusted guide helps you master the discipline, overcome obstacles, and fast track your projects and career.
Production and manufacturing management since the 1980s has absorbed in rapid succession several new production management concepts: manufacturing strategy, focused factory, just-in-time manufacturing, concurrent engineering, total quality management, supply chain management, flexible manufacturing systems, lean production, mass customization, and more. With the increasing globalization of manufacturing, the field will continue to expand. This encyclopedia’s audience includes anyone concerned with manufacturing techniques, methods, and manufacturing decisions.

The Raven - Edgar Allan Poe - 1898

The One-Page Project Manager for Execution - Clark A. Campbell - 2010-01-15
Drive Strategy With Simplicity-On A Single Sheet Of Paper! The One-Page Project Manager set a new standard as an understandable and easy-to-apply organizational tool, allowing managers to summarize complex projects on a single information-rich page. This book, third in the OPPM series, describes how to combine the OPPM with the Toyota A3 report to create an enhanced, integrated management tool. With a refreshingly clear style, the authors walk users through implementing the OPPM/A3 using a variety of real-world case studies, as well as their own experience at O.C. Tanner Company. Rich with tools, templates, and teaching, the emphasis throughout remains on maintaining simplicity across the organization—communicating the right information to the right people at the right time to get the right things done. Praise for The One-Page Project Manager "Executives want the answers to two questions: Where are we today? Where will we end up? Do you really believe this cannot be accomplished on a single sheet of paper? The One-Page Project Manager series of books is encouraging you to do just that. Making this part of your Project Management methodology will simplify and improve your project communication, especially for busy executives." —Harold D. Kerzner, PhD, Senior Executive Director, International Institute for Learning, Inc. "Clark Campbell fills a void and bridges a communication gap that has long existed between company executives and project or program managers. OPPM successfully links corporate strategy to those in the trenches managing projects." —Dr. Denis R. Petersen, PMP®, President and CEO, Milestone Management Consultants, LLC "Clark Campbell and Mike Collins present how OPPM works to drive strategy deployment. With OPPM in our lean tool kit, we have tapped into the creativity of our people to pump up productivity, cut cycle times, reduce inventories, and sustain world-class quality." —Harold Simons, Executive Vice President, Supply Chain, O.C. Tanner Company, Member of the Shingo Prize Board of Governors (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)
their unsurpassed experience leading Six Sigma at Motorola, the authors walk users through implementing the OPPM/A3 using a variety of real-world case studies, as well as their own experience at O.C. Tanner Company. Rich with tools, templates, and teaching, the emphasis throughout remains on maintaining simplicity across the organization—communicating the right information to the right people at the right time to get the right things done. Praise for The One-Page Project Manager “Executives want the answers to two questions: Where are we today? Where will we end up? Do you really believe this cannot be accomplished on a single sheet of paper? The One-Page Project Manager series of books is encouraging you to do just that. Making this part of your Project Management methodology will simplify and improve your project communication, especially for busy executives.” —Harold D. Kerzner, PhD, Senior Executive Director, International Institute for Learning, Inc. "Clark Campbell fills a void and bridges a communication gap that has long existed between company executives and project or program managers. OPPM successfully links corporate strategy to those in the trenches managing projects." —Dr. Denis R. Petersen, PMP®, President and CEO, Milestone Management Consultants, LLC “Clark Campbell and Mike Collins present how OPPM works to drive strategy deployment. With OPPM in our lean tool kit, we have tapped into the creativity of our people to pump up productivity, cut cycle times, reduce inventories, and sustain world-class quality." —Harold Simons, Executive Vice President, Supply Chain, O.C. Tanner Company, Member of the Shingo Prize Board of Governors (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

**Applying Design for Six Sigma to Software and Hardware Systems**

Eric Maass - 2009-08-19

The Practical, Example-Rich Guide to Building Better Systems, Software, and Hardware with DFSS Design for Six Sigma (DFSS) offers engineers powerful opportunities to develop more successful systems, software, hardware, and processes. In Applying Design for Six Sigma to Software and Hardware Systems, two leading experts offer a realistic, step-by-step process for succeeding with DFSS. Their clear, start-to-finish roadmap is designed for successfully developing complex high-technology products and systems that require both software and hardware development. Drawing on cover the entire project lifecycle, from business case through scheduling, customer-driven requirements gathering through execution. They provide real-world examples for applying their techniques to software alone, hardware alone, and systems composed of both. Product developers will find proven job aids and specific guidance about what teams and team members need to do at every stage. Using this book’s integrated, systems approach, marketers, software professionals, and hardware developers can converge all their efforts on what really matters: addressing the customer’s true needs. Learn how to Ensure that your entire team shares a solid understanding of customer needs Define measurable critical parameters that reflect customer requirements Thoroughly assess business case risk and opportunity in the context of product roadmaps and portfolios Prioritize development decisions and scheduling in the face of resource constraints Flow critical parameters down to quantifiable, verifiable requirements for every sub-process, subsystem, and component Use predictive engineering and advanced optimization to build products that robustly handle variations in manufacturing and usage Verify system capabilities and reliability based on pilots or early production samples Master new statistical techniques for ensuring that supply chains deliver on time, with minimal inventory Choose the right DFSS tools, using the authors’ step-by-step flowchart If you’re an engineer involved in developing any new technology solution, this book will help you reflect the real Voice of the Customer, achieve better results faster, and eliminate fingerpointing. About the Web Site The accompanying Web site, sigmaexperts.com/dfss, provides an interactive DFSS flowchart, templates, exercises, examples, and tools.

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Coller School of Management, Tel Aviv University, Tel Aviv, Israel

their unsurpassed experience leading Six Sigma at Motorola, the authors cover the entire project lifecycle, from business case through scheduling, customer-driven requirements gathering through execution. They provide real-world examples for applying their techniques to software alone, hardware alone, and systems composed of both. Product developers will find proven job aids and specific guidance about what teams and team members need to do at every stage. Using this book’s integrated, systems approach, marketers, software professionals, and hardware developers can converge all their efforts on what really matters: addressing the customer’s true needs. Learn how to Ensure that your entire team shares a solid understanding of customer needs

Define measurable critical parameters that reflect customer requirements

Thoroughly assess business case risk and opportunity in the context of product roadmaps and portfolios

Prioritize development decisions and scheduling in the face of resource constraints

Flow critical parameters down to quantifiable, verifiable requirements for every sub-process, subsystem, and component

Use predictive engineering and advanced optimization to build products that robustly handle variations in manufacturing and usage

Verify system capabilities and reliability based on pilots or early production samples

Master new statistical techniques for ensuring that supply chains deliver on time, with minimal inventory

Choose the right DFSS tools, using the authors’ step-by-step flowchart

If you’re an engineer involved in developing any new technology solution, this book will help you reflect the real Voice of the Customer, achieve better results faster, and eliminate fingerpointing. About the Web Site

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**Throughput Economics** - Eli Schragenheim - 2019-06-11

"Schragenheim, Camp and Surace, three leaders of TOC community, are tackling one of value destroyers of corporations—the misuse and abuse of traditional cost accounting. This book develops a practical methodology for better decision making by looking at the impact of certain types of decisions on a company’s bottom line. This well-defined methodology allows mid-managers, higher level managers and financial staff to create real value by concentrating on what truly matters." Boaz Ronen, Professor Emeritus,

"Throughput Economics is a must read for entrepreneurs and managers who want to make their organizations more and more antifragile." Andrea Zattoni, CEO of Antifragility, Italy

"Management accounting is a dry topic. Throughput Economics is not—managers can learn a lot they can apply to their company from it." Rudolf Burkhart, Business Development Director, Vistem Gmbh, Germany

Throughput Economics challenges the current thinking of how to evaluate cost, risks and rewards of any deal or any other new market opportunity being considered, especially the practice of calculating cost-per-unit. Instead, this book offers a process that directly answers the critical question: If we accept the proposed decision, will the performance of the organization improve? The process involves the intuition of the key people in the organization, together with the relevant data, to come up with the best available information from which to form a reasonable range of net profit, when the considered decision is added on top of all the other activities undertaken by the organization. The process is explained and demonstrated using a variety of cases where the organization faces a new non-trivial idea, along with a detailed explanation of how it should work, including software support that provides very quick response to many what-if suggestions. This book offers a new and well-defined process, applicable to every organization, that considers both financial impacts and capacity limitations and, also, includes the impact of uncertainty by providing the range of reasonable results rather than one number, which is always proven wrong in the end. Overall, the book provides a holistic method for simplified decision making in seemingly complex or shifting environments using a constraints mindset to facilitate companies’ realization, for the first time, their true potential.

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and effectiveness, which is manifested in all actions taken (strategies) of any given public or private entity. Therefore, the intertwined functions of information technology, the field of project management and organizational efficiency are inseparable. Number of cases are presented in this book to provide real examples, illustrating what companies do and how they must continuously search for approaches that increases productivity efficiency and effectiveness.

Information Technology, Project Management & Organizational Efficiency - Firend Al. R. -
This book starts with discussion on the nature of Information Technology and how it relates to modern organizational function. Then a discussion on process design and methodology in project management, to highlight the increasing importance of project-based jobs in post COVID-19 world. The discussion on the role of information technology is all about Organizational Efficiency. In quest of the organization will remain to increase efficiency and effectiveness, which is manifested in all actions taken (strategies) of any given public or private entity. Therefore, the intertwined functions of information technology, the field of project management and organizational efficiency are inseparable. Number of cases are presented in this book to provide real examples, illustrating what companies do and how they must continuously search for approaches that increases productivity efficiency and effectiveness.

Earned Schedule - Walter H. Lipke - 2009-12
This book is intended for those who use Earned Value Management (EVM), including project managers, engineers and performance analysts. Earned Schedule (ES) is a significant enhancement to EVM, extending its cost-based features to the management and control of schedule performance. By using ES and EVM together, project management of cost and schedule can now be treated in a truly integrated sense. The book builds from the fundamentals of EVM to derive the concept of ES. The performance measurement baseline and earned value from EVM are utilized to extract time-based performance measures, indicators, and predictors. From this foundation, complexity is incrementally added with descriptions and examples for performance analysis, prediction and project control. Specific
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Neural Darwinism - Gerald Edelman - 1987-12-06
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Earned Value Project Management - Quentin W. Fleming - 2000
Earned value is a project management technique that is emerging as a
valuable tool in the management of all projects, including and, in particular,
software projects. In its most simple form, earned value equates to
fundamental project management. This is not a new book, but rather it is an
updated book. Authors Quentin Fleming and Joel Koppelman have made
given section. But in other sections, the authors have made substantial
revisions to what they had described in the first edition. Fleming and
Koppelman's goal remains the same with this update; describe earned value
project management in its most fundamental form, for application to all
projects, of any size or complexity. Writing in an easy-to-read, friendly, and
humorous style characteristic of the best teachers, Fleming and Koppelman
have identified the minimum requirements that they feel are necessary to
use earned value as a simple tool for project managers. They have also
witnessed the use of simple earned value on software projects, and find it
particularly exciting. Realistically, a Cost Performance Index (CPI) is the
same whether the project is a multibillion-dollar high-technology project, or
a simple one hundred thousand-dollar software project. A CPI is a CPI
period. It is a solid metric that reflects the health of the project. In every
chapter, Fleming and Koppelman stick with using simple stories to define
their central concept. Their project examples range from peeling potatoes to
building a house. Examples are in round numbers, and most formulas get no
more complicated than one number divided by another. Earned Value
Project Management--second edition may be the best-written, most easily
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**The Project Management Answer Book** - Jeff Furman PMP - 2014-12-01

If it’s essential to project management it’s in here! The first edition of The Project Management Answer Book addressed all the key principles of project management that every project manager needs to know. With a new chapter on scrum agile, updates throughout, and many new PMP® test tips, this new edition builds on that solid foundation. The structure of this update maps closely to the PMBOK® Guide, Fifth Edition, and is designed to assist anyone studying for the PMP® and other certification exams. Helpful sections cover: • Networking and social media tips for PMs, including the best professional organizations, virtual groups, and podcast resources • The formulas PMs need to know, plus a template to help certification candidates prepare and self-test for their exams • Quick study sheet for the processes covered on the PMP® exam • Key changes in PMBOK® Guide, Fifth Edition, for readers familiar with earlier versions who want “the skinny” on the new version. PMs at every level will find real gold in the information nuggets provided in this new edition. Those new to project management will find the comprehensive coverage and the depth of the answers especially valuable, and will like the easy-to-read style and Q&A format. For experienced managers looking for new tools and skills to help them pass their PMP® or other certification exams, this is a must-have resource.