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Concise Guide to Software Engineering Cambridge University Press
Fully revised new edition that completely covers intellectual property law—and many related issues—for engineers, scientists, and entrepreneurs This book informs engineering and science students, technology professionals, and entrepreneurs about the intellectual property laws that are important in their careers. It covers all of the major areas of intellectual property development and protection in non-legalistic terms that are understandable to technology and science professionals. New material includes a comprehensive discussion on the American Invents Act (AIA), coverage of many new high-profile topics, such as patent protection the mobile communications industry, and a new chapter on "The Future of Technology, Engineering, and Intellectual Property." Now in its second edition, Intellectual Property Law for Engineers, Scientists, and Entrepreneurs enables inventors and creators to efficiently interface with an intellectual property attorney in order to obtain the maximum protection for their invention or creation, and to take steps to ensure that that invention or creation does not infringe upon the intellectual property rights of others. It includes patent, trade secret, mask work, and cybersquatting legal and procedural principles. The book also shows readers how to properly use new vehicles of intellectual property protection for novel software, biotech, and business method inventions. Additionally, it examines trademark protection for domain names, and other ancillary matters that fall within the genre of intellectual property protection. This informative text: Covers all of the major areas of intellectual property development and protection in clear, layman’s terms so as to be easily understood by technology and science professionals Provides detailed outlines of patent, trademark, copyright, and unfair competition laws Offers essays on famous and noteworthy inventors and their inventions—and features a copy of the first page of patents resulting from these inventors’ efforts Covers many new high-profile cases covering patent protection within the mobile communications industry Intellectual Property Law for Engineers, Scientists, and Entrepreneurs, Second Edition is an excellent text for graduate and undergraduate engineering students, as well as professionals and those starting a new technology business who need to know all the laws concerning their inventions and creations.

Strategic Business Planning John Wiley & Sons
Requirements engineering is the process by which the requirements for software systems are gathered, analyzed, documented, and managed throughout their complete lifecycle. Traditionally it has been concerned with technical goals for, functions of, and constraints on software systems. Aurum and Wohlin, however, argue that it is no longer appropriate for software systems professionals to focus only on functional and non-functional aspects of the intended system and to somehow assume that organizational context and needs are outside their remit. Instead, they call for a broader perspective in order to gain a better understanding of the interdependencies between enterprise stakeholders, processes, and software systems, which would in turn give rise to more appropriate techniques and higher-quality systems. Following an introductory chapter that provides an exploration of key issues in requirements engineering, the book is organized in three parts. Part 1 presents surveys of state-of-the art requirements engineering process research along with critical assessments of existing models, frameworks and techniques. Part 2 addresses key areas in requirements engineering, such as market-driven requirements engineering, goal modeling, requirements ambiguity, and others. Part 3 concludes the book with articles that present empirical evidence and experiences from practices in industrial projects. Its broader perspective gives this book its

distinct appeal and makes it of interest to both researchers and practitioners, not only in software engineering but also in other disciplines such as business process engineering and management science.

Values, Ergonomics and Risk Management in Aviation Business Strategy IET
This book provides an easy-to-follow roadmap for successfully implementing the Balanced Scorecard methodology in small- and medium-sized companies. Building on the success of the first edition, the Second Edition includes new cases based on the author's experience implementing the balanced scorecard at government and nonprofit agencies. It is a must-read for any organization interested in achieving breakthrough results.

Balanced Scorecard CRC Press
This textbook presents a concise introduction to the fundamental principles of software engineering, together with practical guidance on how to apply the theory in a real-world, industrial environment. The wide-ranging coverage encompasses all areas of software design, management, and quality. Topics and features: presents a broad overview of software engineering, including software lifecycles and phases in software development, and project management for software engineering; examines the areas of requirements engineering, software configuration management, software inspections, software testing, software quality assurance, and process quality; covers topics on software metrics and problem solving, software reliability and dependability, and software design and development, including Agile approaches; explains formal methods, a set of mathematical techniques to specify and derive a program from its specification, introducing the Z specification language; discusses software process improvement, describing the CMMI model, and introduces UML, a visual modelling language for software systems; reviews a range of tools to support various activities in software engineering, and offers advice on the selection and management of a software supplier; describes such innovations in the field of software as distributed systems, service-oriented architecture, software as a service, cloud computing, and embedded systems; includes key learning topics, summaries and review questions in each chapter, together with a useful glossary. This practical and easy-to-follow textbook/reference is ideal for computer science students seeking to learn how to build high quality and reliable software on time and on budget. The text also serves as a self-study primer for software engineers, quality professionals, and software managers.

HBR's 10 Must Reads Boxed Set with Bonus Emotional Intelligence (7 Books) (HBR's 10 Must Reads) BPP Learning Media

You want the most important ideas on management all in one place. Now you can have them—in a set of HBR ’ s 10 Must Reads, available as a 7-volume paperback boxed set or as an ebook set. We ’ ve combed through hundreds of Harvard Business Review articles on change, leadership, strategy, managing people, and managing yourself and selected the most important ones to help you maximize your own and your organization's performance. The HBR ’ s 10 Must Reads Boxed Set includes seven bestselling collections: HBR's 10 Must Reads on Leadership (ways you can transform yourself from a good manager into an extraordinary leader); HBR's 10 Must Reads on Managing Yourself (the path to your own professional success starts with a critical look in the mirror and what you see there—your greatest strengths and deepest values—are the foundations you must build on); HBR's 10 Must Reads on Strategy (will help galvanize your organization's strategy development and execution); HBR's 10 Must Reads on Change (70% of all change initiatives fail, but the odds turn in your company's favor once you understand that change is a multi-stage process—not an event—and that persuasion is key to establishing a sense of urgency, winning support, and silencing naysayers); HBR's 10 Must Reads on Managing People (will help you determine what really motivates people, how to deal with problem employees, and how to build an effective team); HBR's 10 Must Reads: The Essentials (which brings together the best

thinking from management ’ s most influential experts); and HBR ’ s 10 Must Reads on Emotional Intelligence (the trait that is twice as important as other competencies in determining outstanding leadership). HBR's 10 Must Reads Boxed Set with Bonus Emotional Intelligence also makes a smart gift for your team, colleagues, or clients. The ebook set is available in PDF, ePub and mobi formats.

Managing Web Projects John Wiley & Sons
The classic industrial engineering resource—fully updated for the latest advances Brought fully up to date by expert Bopaya M. Bidanda, this go-to handbook contains exhaustive, application-driven coverage of Industrial Engineering (IE) principles, practices, materials, and systems. Featuring contributions from scores of international professionals in the field, Maynard ’ s Industrial Engineering Handbook, Sixth Edition provides a holistic view of exactly what an Industrial Engineer in today ’ s world needs to succeed. All-new chapters and sections cover logistics, probability and statistics, supply chains, quality, product design, systems engineering, and engineering management. Coverage includes: Productivity Engineering economics Human factors, ergonomics, and safety Compensation management Facility logistics Planning and scheduling Operations research Statistics and probability Supply chains and quality Product design Manufacturing models and analysis Systems engineering Engineering management The global Industrial Engineer IE application environments

The Engineer Oxford University Press on Demand
This book equips managers and professionals with effective management tools and strategies, as well as important concepts to help them combat current challenges and problems. It provides a holistic and practical approach to lean and quality management throughout the business value chain. The author describes comprehensively how management strategies and problem-solving tools enable companies to concentrate on value-adding activities and processes to achieve the competitive advantage. This allows managers to choose the proper tool and strategy for each situation and use it effectively. A wealth of best practices, industry examples and case studies are also included.

The Unified Process Construction Phase Springer
This volume identifies, discusses and addresses the wide array of ethical issues that have emerged for engineers due to the rise of a global economy. To date, there has been no systematic treatment of the particular challenges globalization poses for engineering ethics standards and education. This volume concentrates on precisely this challenge. Scholars and practitioners from diverse national and professional backgrounds discuss the ethical issues emerging from the inherent symbiotic relationship between the engineering profession and globalization. Through their discussions a deeper and more complete understanding of the precise ways in which globalization impacts the formulation and justification of ethical standards in engineering as well as the curriculum and pedagogy of engineering ethics education emerges. The world today is witnessing an unprecedented demand for engineers and other science and technology professionals with advanced degrees due to both the off-shoring of western jobs and the rapid development of non-Western countries. The current flow of technology and professionals is from the West to the rest of the world. Professional practices followed by Western (or Western-trained) engineers are often based on presuppositions which can be in fundamental disagreement with the viewpoints of non-Westerners. A successful engineering solution cannot be simply technically sound, but also must account for cultural, social and religious constraints. For these reasons, existing Western standards cannot simply be exported to other countries. Divided into two parts, Part I of the volume provides an overview of particular dimensions of globalization and the criteria that an adequate engineering ethics framework must satisfy in a globalized world. Part II of the volume considers pedagogical challenges and aims in engineering ethics education that is global in character.

From Business Strategy to IT Action CRC Press
#1 New York Times Bestseller Legendary venture capitalist John Doerr reveals how the goal-setting system of Objectives and Key Results (OKRs) has helped tech giants from Intel to Google achieve explosive growth—and how it can help any organization thrive. In the fall of 1999, John Doerr met with the founders of a start-up whom he'd just given \$12.5 million, the biggest investment of his career. Larry Page and Sergey Brin had amazing technology, entrepreneurial

energy, and sky-high ambitions, but no real business plan. For Google to change the world (or even to survive), Page and Brin had to learn how to make tough choices on priorities while keeping their team on track. They'd have to know when to pull the plug on losing propositions, to fail fast. And they needed timely, relevant data to track their progress—to measure what mattered. Doerr taught them about a proven approach to operating excellence: Objectives and Key Results. He had first discovered OKRs in the 1970s as an engineer at Intel, where the legendary Andy Grove ("the greatest manager of his or any era") drove the best-run company Doerr had ever seen. Later, as a venture capitalist, Doerr shared Grove's brainchild with more than fifty companies. Wherever the process was faithfully practiced, it worked. In this goal-setting system, objectives define what we seek to achieve; key results are how those top-priority goals will be attained with specific, measurable actions within a set time frame. Everyone's goals, from entry level to CEO, are transparent to the entire organization. The benefits are profound. OKRs surface an organization's most important work. They focus effort and foster coordination. They keep employees on track. They link objectives across silos to unify and strengthen the entire company. Along the way, OKRs enhance workplace satisfaction and boost retention. In Measure What Matters, Doerr shares a broad range of first-person, behind-the-scenes case studies, with narrators including Bono and Bill Gates, to demonstrate the focus, agility, and explosive growth that OKRs have spurred at so many great organizations. This book will help a new generation of leaders capture the same magic.

Starting a Tech Business IGI Global

This collection highlights the most important ideas and concepts from Robert S. Kaplan and David P. Norton, authors of The Balanced Scorecard, a revolutionary performance measurement system that allows organizations to quantify intangible assets such as people, information, and customer relationships. Also included are Strategy Maps, which enables companies to describe the links between intangible assets and value creation with a clarity and precision never before possible; The Execution Premium, which describes a multistage system to help companies to gain measurable benefits from carefully formulated business strategy; and The Strategy-Focused Organization, which introduces a new approach to make strategy a continuous process owned not just by top management, but by everyone. The Balanced Scorecard Springer Nature

From Business Strategy to IT Action gives companies of all sizethe tools to effectively link IT to business strategy and produceeffective, actionable strategies for bottom-line results. Theauthors present CEOs, CFOs, CIOs, and IT managers with a powerfuland accessible resource packed with such useful material as: * The Strategy-to-Bottom-Line Value Chain, which integrates themanagement practices relating to planning, prioritization,alignment, and assessing a company's entire IT budget * Methods for using IT Impact Management to establish IT cultureand performance models for the business/IT connection * The IT Improvement Zone, which quickly identifies where a companycan focus its energies for maximum results * And much more

Perspectives in Business Informatics Research DIANE Publishing

This new edition presents an enhanced perspective for the innovative concept of Total Manufacturing Assurance (TMA) and the holistic means by which such assurance can be attained. In fulfilling this objective, this textbook discusses the management and engineering techniques and tools, required to achieve TMA. Using a holistic approach to manufacturing operations, Total Manufacturing Assurance: Controlling Product Quality, Reliability, and Safety, Second Edition focuses on analytics and performance assessment, along with Industry 4.0 and the role it plays in advanced manufacturing. The textbook covers strategic planning, innovation, and engineering economics, as well as the manufacturing process, materials, and operations. Product manufacturing system reliability, maintainability, availability, quality, and safety, along with financial issues in decision-making and engineering analysis, are all captured in this new edition. Students at undergraduate and graduate levels studying engineering management, mechanical, industrial, and manufacturing engineering, as well as business students will find this new edition an invaluable instructional resource. At the same time, working professionals, including management, engineers, and others who are intimately involved in the manufacturing system sector will also find this textbook very useful in their day-to-day work. PowerPoint slides and a solutions manual are available to instructors for qualified course adoptions.

CIMA Official Learning System Management Accounting Business Strategy Springer Nature

Strategic Excellence in the Architecture, Engineering, and Construction Industries is a process of applied strategic thinking designed to develop a strategy empowered with the agility to adapt to changing circumstances and to drive a high performing culture of ideal behaviors. It is infused with the insight and the thought leadership of the Shingo Model and the scientific thinking of Lean Six Sigma. The book goes beyond the classic approach to strategic planning by driving effective execution of the strategy through the embedment of collective ownership and organization-wide alignment into the entire process. Significant advances in strategic planning and management have been developed over decades of learning and practice. Many of those advances, however, have been developed in the manufacturing industry and have not been translated into terms easily applicable to the A/E/C (Architectural / Engineering / Construction) industry. This book incorporates current best practices from cutting edge organizations around the globe and presents those in a way that they can easily be applied to A/E/C organizations through an efficient and effective process.

Intellectual Property Law for Engineers, Scientists, and Entrepreneurs Springer Science & Business Media

The cost of unsuccessful web projects runs into many millions; intranets that don't deliver, websites that

customers won't use. Sometimes the problem is technological, but at other times, the project team has failed to understand some of the basic human dynamics involved, or have used processes that are inappropriate. Managing Web Projects describes how to manage a successful web-delivery project. Running throughout is a case study (based on a real occurrence) that is developed chapter by chapter to demonstrate project management concepts in the context of a web-delivery project. The book is illustrated throughout by examples, also drawn from actual cases of web-delivery projects. An appendix provides essential planning forms described in the book as well as the forms for the case study project running throughout.

Value-Focused Business Process Engineering : a Systems Approach McGraw Hill Professional

BPP Learning Media is an ACCA Approved Content Provider. Our partnership with ACCA means that our Study Texts, Practice & Revision Kits and iPass (for CBE papers only) are subject to a thorough ACCA examining team review. Our suite of study tools will provide you with all the accurate and up-to-date material you need for exam success.

Data Administration John Wiley & Sons

This book examines how organizations can, and should, transform their practices to compete in a world economy. Research results from a multi-disciplinary team of MIT researchers, along with the experiences and insights of a select group of industry practitioners, are integrated into a model that stresses the need for systemic and transformative rather than piecemeal or incremental changes in organization practices and public policy. This integration of research and experience results in an argument for a new organizational learning model--one capable of gaining advantage from employee diversity, cooperation across organizational boundaries, strategic restructuring, and advanced technology. The book begins with a foreword by Lester C. Thurow.

The Strategies of Informing Technology in the 21st Century Value-Focused Business Process Engineering : a Systems Approach

Is the Unified Process the be all and end all standard for developing object-oriented component-based software? This book is the second in a four volume series that presents a critical review of the Unified Process. The authors present a survey of the alt

The Entrepreneurial Engineer Springer Science & Business Media

Have you ever wondered how it's possible to build a skyscraper, a big bridge, a jumbo jet, or a cruise liner? Everything has structure. Structure is the difference between a random pile of components and a fully functional object. Through structure the parts connect to make the whole. Natural structures vary from the very smallest part of an atom to the entire cosmology of the universe. Man-made structures include buildings, bridges, dams, ships, aeroplanes, rockets, trains, cars and fair-ground rides and all forms of artefacts, even large artistic sculptures. The wide range of different industries in which structural engineers work includes construction, transport, manufacturing, and aerospace. In this Very Short Introduction, David Blockley explores, in non-technical language, what structural engineering is all about, including examples ranging from the Shard in London and the Golden Gate Bridge in San Francisco to jumbo jets like the A380 and the Queen Elizabeth cruise liner. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Strategic Excellence in the Architecture, Engineering, and Construction Industries Springer Nature

Covers: data architecture, data standards, the strategic plan and systems development, data integration issues in systems development, and the data administrator: achieving excellence. Measure What Matters Penguin

This state-of-the-art Handbook provides a comprehensive understanding and assessment of the field of global supply chain management (GSCM). Editors John T. Mentzer, Matthew B. Myers, and Theodore P. Stank bring together a distinguished group of contributors to describe and critically examine the key perspectives guiding GSCM, taking stock of what we know (and do not know) about them.