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Practical Engineering Management of Offshore Oil and Gas Platforms Springer

This book introduces the methods for predicting the future behavior of a system's health and the remaining useful life to determine an appropriate maintenance schedule. The authors introduce the history, industrial applications, algorithms, and benefits and challenges of PHM (Prognostics and Health Management) to help readers understand this highly interdisciplinary engineering approach that incorporates sensing technologies, physics of failure, machine learning, modern statistics, and reliability engineering. It is ideal for beginners because it introduces various prognostics algorithms and explains their attributes, pros and cons in terms of model definition, model parameter estimation, and ability to handle noise and bias in data, allowing readers to select the appropriate methods for their fields of application. Among the many topics discussed in-depth are:

- Prognostics tutorials using least-squares
- Bayesian inference and parameter estimation
- Physics-based prognostics algorithms including nonlinear least squares, Bayesian method, and particle filter
- Data-driven prognostics

algorithms including Gaussian process regression and neural network

- Comparison of different prognostics algorithms

The authors also present several applications of prognostics in practical engineering systems, including wear in a revolute joint, fatigue crack growth in a panel, prognostics using accelerated life test data, fatigue damage in bearings, and more. Prognostics tutorials with a Matlab code using simple examples are provided, along with a companion website that presents Matlab programs for different algorithms as well as measurement data. Each chapter contains a comprehensive set of exercise problems, some of which require Matlab programs, making this an ideal book for graduate students in mechanical, civil, aerospace, electrical, and industrial engineering and engineering mechanics, as well as researchers and maintenance engineers in the above fields.

Prognostics and Health Management of Engineering Systems

"O'Reilly Media, Inc."

Career success for engineers who wish to move up the management ladder, requires more than an understanding of engineering and technological principles. OCo it demands a profound understanding of todayOCO's business management issues and principles. In this unique book, the author provides you with a valuable understanding of contemporary management concepts and their applications in a technical organization. You get in-depth coverage of product selection and management, engineering design and product costing, concurrent engineering, value management, configuration management, risk management, reengineering strategies and benefits, managing creativity and innovation, information technology management, and software management. The large number of solved examples highlighted throughout the text underscore the value

of this book as an indispensable OC How ToOCO manual, and library reference piece."

Quality Management O'Reilly Media

Today, software engineers need to know not only how to program effectively but also how to develop proper engineering practices to make their codebase sustainable and healthy. This book emphasizes this difference between programming and software engineering. How can software engineers manage a living codebase that evolves and responds to changing requirements and demands over the length of its life? Based on their experience at Google, software engineers Titus Winters and Hyrum Wright, along with technical writer Tom Manshreck, present a candid and insightful look at how some of the world's leading practitioners construct and maintain software. This book covers Google's unique engineering culture, processes, and tools and how these aspects contribute to the effectiveness of an engineering organization. You'll explore three fundamental principles that software organizations should keep in mind when designing, architecting, writing, and maintaining code: How time affects the sustainability of software and how to make your code resilient over time How scale affects the viability of software practices within an engineering organization What trade-offs a typical engineer needs to make when evaluating design and development decisions

The Essence of Software Engineering Stripe Press

This introductory textbook links theory with practice using real illustrative cases involving products, plants and infrastructures and exposes the student to the evolutionary trends in maintenance. Provides an interdisciplinary approach which links, engineering, science, technology, mathematical modelling, data collection and analysis, economics and management Blends theory with practice illustrated through examples relating to products, plants and infrastructures Focuses on concepts, tools and techniques Identifies the special management requirements of various engineered objects (products, plants, and infrastructures)

Guide to the Software Engineering Body of Knowledge

(Swebok(r)) Springer Nature

This Briefs Series book illustrates in depth a concept of healthcare management engineering and its domain for hospital and clinic operations. Predictive and analytic decision-making power of management engineering methodology is systematically compared to traditional management reasoning by applying both side by side to analyze 26 concrete operational management problems adapted from hospital and clinic practice. The problem types include: clinic, bed and operating rooms capacity; patient flow; staffing and scheduling; resource allocation and optimization; forecasting of patient volumes and seasonal variability; business intelligence and data mining; and game theory application for allocating cost savings between cooperating providers. Detailed examples of applications are provided for quantitative methods such as discrete event simulation, queuing analytic theory, linear and probabilistic optimization, forecasting of a time series, principal component decomposition of a data set and cluster analysis, and the Shapley value for fair gain sharing between cooperating participants. A summary of some fundamental management engineering principles is provided. The goal of the book is to help to bridge the gap in mutual understanding and communication between management engineering professionals and hospital and clinic administrators. The book is intended primarily for hospital/clinic leadership who are in charge of making managerial decisions. This book can also serve as a compendium of introductory problems/projects for graduate students in Healthcare Management and Administration, as well as for MBA programs with an emphasis in Healthcare.

SVG Animations O'Reilly Media

Covers the entire process of risk management by providing methodologies for determining the sources of engineering project risk, and once threats have been identified, managing them through: identification and assessment (probability, relative importance, variables, risk breakdown structure, etc.); implementation of measures for their prevention, reduction or mitigation; evaluation of impacts and quantification of risks and establishment of control measures. It also considers

sensitivity analysis to determine the influence of uncertain parameters values on different project results, such as completion time, total costs, etc. Case studies and examples across a wide spectrum of engineering projects discuss such diverse factors as: safety; environmental impacts; societal reactions; time and cost overruns; quality control; legal issues; financial considerations; and political risk, making this suitable for undergraduates and graduates in grasping the fundamentals of risk management.

An Elegant Puzzle Springer

Prologue: The Value of Knowledge -- 2. Knowledge-Engineering Basics -- 3. The Task and Its Organizational Context -- 4. Knowledge Management -- 5. Knowledge Model Components -- 6. Template Knowledge Models -- 7. Knowledge Model Construction -- 8. Knowledge-Elicitation Techniques -- 9. Modelling Communication Aspects -- 10. Case Study: The Housing Application -- 11. Designing Knowledge Systems -- 12. Knowledge-System Implementation -- 13. Advanced Knowledge Modelling -- 14. UML Notations Used in Common KADS -- 15. Project Management.

Process Engineering and Industrial Management CRC Press

Suitable for engineering and management courses, this book intends to develop an understanding of the basic management concepts required in different engineering disciplines, and meets the specific requirements of students pursuing B Tech/M Tech courses and MBA, Post graduate Diploma in Management/Engineering Management.

[Economic and Financial Analysis for Engineering and Project Management](#) "O'Reilly Media, Inc."

Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource management and strategic management, as well as behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an additional benefit of this text is that specialists in a variety of areas have authored individual chapters. This is an adaptation of Principles of Management by OpenStax. You can access the textbook as pdf for free at openstax.org. Minor editorial changes were made to ensure a better ebook reading experience. Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4.0 International License.

Staff Engineer MIT Press

Requirements Engineering and Management for Software

Development Projects presents a complete guide on requirements for software development including engineering, computer science and management activities. It is the first book to cover all aspects of requirements management in software development projects. This book introduces the understanding of the requirements, elicitation and gathering, requirements analysis, verification and validation of the requirements, establishment of requirements, different methodologies in brief, requirements traceability and change management among other topics. The best practices, pitfalls, and metrics used for efficient software requirements management are also covered. Intended for the professional market, including software engineers, programmers, designers and researchers, this book is also suitable for advanced-level students in computer science or engineering courses as a textbook or reference.

Service Science, Management and Engineering Pragmatic Bookshelf

At most technology companies, you'll reach Senior Software Engineer, the career level for software engineers, in five to eight years. At that career level, you'll no longer be required to work towards the next promotion, and being promoted beyond it is exceptional rather than expected. At that point your career path will branch, and you have to decide between remaining at your current level, continuing down the path of technical excellence to become a Staff Engineer, or switching into engineering management. Of course, the specific titles vary by company, and you can replace "Senior Engineer" and "Staff Engineer" with whatever titles your company prefers. Over the past few years we've seen a flurry of books unlocking the engineering management career path, like Camille Fournier's The Manager's Path, Julie Zhuo's The Making of a Manager, Lara Hogan's Resilient Management and my own, An Elegant Puzzle. The management career isn't an easy one, but increasingly there are maps available for navigating it. On the other hand, the transition into Staff Engineer, and its further evolutions like Principal and Distinguished Engineer, remains challenging and undocumented. What are the skills you need to develop to reach Staff Engineer? Are technical abilities alone sufficient to reach and succeed in that role? How do most folks reach this role? What is your manager's role in helping you along the way? Will you enjoy being a Staff Engineer or you will toil for years to achieve a role that doesn't suit you?"Staff Engineer: Leadership beyond the management track" is a pragmatic look at attaining and operate in these Staff-plus roles.

Software Engineering at Google Springer

Managing people is difficult wherever you work. But in the tech

industry, where management is also a technical discipline, the learning curve can be brutal—especially when there are few tools, texts, and frameworks to help you. In this practical guide, author Camille Fournier (tech lead turned CTO) takes you through each stage in the journey from engineer to technical manager. From mentoring interns to working with senior staff, you'll get actionable advice for approaching various obstacles in your path. This book is ideal whether you're a new manager, a mentor, or a more experienced leader looking for fresh advice. Pick up this book and learn how to become a better manager and leader in your organization. Begin by exploring what you expect from a manager. Understand what it takes to be a good mentor, and a good tech lead. Learn how to manage individual members while remaining focused on the entire team. Understand how to manage yourself and avoid common pitfalls that challenge many leaders. Manage multiple teams and learn how to manage managers. Learn how to build and bootstrap a unifying culture in teams.

Startup Engineering Management, 2nd Edition MIT Press

In the past, when goods and services were simpler, measurement of quality was self-evident. As business became more complicated, so too did the implementation of quality management and our ability to measure it. Ultimately, the practice of quality strayed from being a business practice to become much more of an engineering discipline producing plan

Become an Effective Software Engineering Manager

This book assesses the achievements of the software engineering discipline as represented by IT vendors in Japan in order to deepen understanding of the mechanisms of how software engineering capabilities relate to IT vendors' business performance and business environment from the perspective of innovation and engineering management. Based on the concepts of service science and science for society, the volume suggests how to improve the sophistication of services between the demand side, i.e., IT user companies, and the supply side, i.e., IT vendors, simultaneously. The author and his colleagues developed a structural model including innovational paths, such as service innovation, product innovation and process innovation, and a measurement model including the seven software engineering capabilities: deliverables, project management, quality assurance, process improvement, research and development, human resource development and customer contact. Then they designed research on software engineering excellence and administered it with the Japanese Ministry of Economy, Trade and Industry and Information-Technology Promotion

Agency. Through statistical analyses of the results, they found that human resource development and R&D are significant fundamental conditions to improve the quality of the deliverables and that IT firms with high levels of deliverables, derived from high levels of human resource development, quality assurance, project management and process improvement, tend to sustain high profitability. In addition, they developed a measurement model based on Porter's five forces and Barney's resource-based view. A regression tree analysis suggested that manufacturer spin-off vendors tend to expand business with well-resourced R&D, whereas user spin-off vendors tend to depend heavily on parent company demand.

Principles of Software Engineering Management Addison-Wesley Professional

Timeless advice from the pages of Harvard Business Review. 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. We've combed through hundreds of Harvard Business Review articles on strategy, change leadership, managing people, and managing yourself and selected the most important ones to help you maximize your performance. This six-title collection includes only the most critical articles from the world's top management experts, curated from Harvard Business Review's rich archives. We've done the work of selecting them so you won't have to. These books are packed with enduring advice from the best minds in business such as: Michael Porter, Clayton Christensen, Peter Drucker, John Kotter, Daniel Goleman, Jim Collins, Ted Levitt, Gary Hamel, W. Chan Kim, Renee Mauborgne and much more. The HBR's 10 Must Reads Boxed Set includes: HBR's 10 Must Reads: The Essentials This book brings together the best thinking from management's most influential experts. Once you've read these definitive articles, you can delve into each core topic the series explores: managing yourself, managing people, leadership, strategy, and change management. HBR's 10 Must Reads on Managing Yourself The path to your professional success starts with a critical look in the mirror. Here's how to stay engaged throughout your 50-year work life, tap into your deepest values, solicit candid feedback, replenish your physical and mental energy, and rebound from tough times. This book includes the bonus article "How Will You Measure Your Life?" by Clayton M. Christensen. HBR's 10 Must Reads on Managing People Managing your employees is fraught with challenges, even if you're a seasoned pro. Boost their performance by tailoring your management styles to their

temperaments, motivating with responsibility rather than money, and fostering trust through solicited input. This book includes the bonus article "Leadership That Gets Results," by Daniel Goleman. HBR's 10 Must Reads on Leadership Are you an extraordinary leader--or just a good manager? Learn how to motivate others to excel, build your team's confidence, set direction, encourage smart risk-taking, credit others for your success, and draw strength from adversity. This book includes the bonus article "What Makes an Effective Executive," by Peter F. Drucker. HBR's 10 Must Reads on Strategy Is your company spending too much time on strategy development, with too little to show for it? Discover what it takes to distinguish your company from rivals, clarify what it will (and won't) do, create blue oceans of uncontested market space, and make your priorities explicit so employees can realize your vision. This book includes the bonus article "What Is Strategy?" by Michael E. Porter. HBR's 10 Must Reads on Change Management Most companies' change initiatives fail--but yours can beat the odds. Learn how to overcome addiction to the status quo, establish a sense of urgency, mobilize commitment and resources, silence naysayers, minimize the pain of change, and motivate change even when business is good. This book includes the bonus article "Leading Change," by John P. Kotter. About the HBR's 10 Must Reads Series: HBR's 10 Must Reads series is the definitive collection of ideas and best practices for aspiring and experienced leaders alike. These books offer essential reading selected from the pages of Harvard Business Review on topics critical to the success of every manager. Each book is packed with advice and inspiration from the best minds in business.

Decision Making in Systems Engineering and Management Springer Science & Business Media

Software startups make global headlines every day. As technology companies succeed and grow, so do their engineering departments. In your career, you'll may suddenly get the opportunity to lead teams: to become a manager. But this is often uncharted territory. How can you decide whether this career move is right for you? And if you do, what do you need to learn to succeed? Where do you start? How do you know that you're doing it right? What does "it" even mean? And isn't management a dirty word? This book will share the secrets you need to know to manage engineers successfully. Going from engineer to manager doesn't have to be intimidating. Engineers can

be managers, and fantastic ones at that. Cast aside the rhetoric and focus on practical, hands-on techniques and tools. You'll become an effective and supportive team leader that your staff will look up to. Start with your transition to being a manager and see how that compares to being an engineer. Learn how to better organize information, feel productive, and delegate, but not micromanage. Discover how to manage your own boss, hire and fire, do performance and salary reviews, and build a great team. You'll also learn the psychology: how to ship while keeping staff happy, coach and mentor, deal with deadline pressure, handle sensitive information, and navigate workplace politics. Consider your whole department. How can you work with other teams to ensure best practice? How do you help form guilds and committees and communicate effectively? How can you create career tracks for individual contributors and managers? How can you support flexible and remote working? How can you improve diversity in the industry through your own actions? This book will show you how. Great managers can make the world a better place. Join us.

Engineering Management CRC Press

In the Guide to the Software Engineering Body of Knowledge (SWEBOK(R) Guide), the IEEE Computer Society establishes a baseline for the body of knowledge for the field of software engineering, and the work supports the Society's responsibility to promote the advancement of both theory and practice in this field. It should be noted that the Guide does not purport to define the body of knowledge but rather to serve as a compendium and guide to the knowledge that has been developing and evolving over the past four decades. Now in Version 3.0, the Guide's 15 knowledge areas summarize generally accepted topics and list references for detailed information. The editors for Version 3.0 of the SWEBOK(R) Guide are Pierre Bourque (Ecole de technologie superieure (ETS), Universite du Quebec) and Richard E. (Dick) Fairley (Software and Systems Engineering Associates (S2EA)).

System Safety Engineering and Management "O'Reilly Media, Inc."
Economic and Financial Analysis for Engineering and Project

Management is for engineers and others who must analyze the financial and economic ramifications of producing and sustaining capital projects. Unlike other books in the field, it offers straightforward and lucid explanations of all main formulas needed to carry out financial analyses. The

Engineering Management Springer

The textbook is designed for B.Tech students of Electrical/Mechanical/Industrial Engineering and M.Tech students of Power System/Energy Engineering/Energy Management. It will also be useful for MBA courses on Energy Management conducted by some universities through distance education mode. The book, now in its Second Edition, offers an exhaustive discussion of the energy analysis methodologies and tools to optimize the utilization of energy and how to enhance efficiency during conversion of energy from one form to another. It illustrates the energy analysis methods used in factories, transportation systems and buildings highlighting the various forms of use. It also discusses the thermodynamic principles of energy conversion and constitution of energy balance equation for such systems. The book examines the energy costs in our everyday life in terms of energy inputs in food cultivation. It also discusses similar energy costs of using fuels, other goods and services in our daily life
KEY FEATURES • Includes numerous questions and answers on Energy Management • Contains problems and solutions on Energy Management • Provides MCQs for the preparation of certified energy auditor examination conducted by the Bureau of Energy Efficiency, GoI • Includes Case Studies NEW TO THE SECOND EDITION • Includes new chapters on Electrical Systems, Transformers, Electric Motors, Pumps and Fans, Compressors, Water Heaters, Electrolytic Processes, and Energy Control Centre • Incorporates latest topics in the existing chapters • Provides critical case studies

Life Cycle Engineering and Management of Products John Wiley & Sons

Tap into the wisdom of experts to learn what every engineering manager should know. With 97 short and extremely useful tips for engineering managers, you'll discover new approaches to old problems, pick up road-tested best practices, and hone your management skills through sound advice. Managing people is hard, and the industry as a whole is bad at it. Many managers lack the experience, training, tools, texts, and frameworks to do it well. From mentoring interns to working in senior management, this book will take you through the stages of management and provide actionable advice on how to approach the obstacles you'll encounter as a technical manager. A few of the 97 things you should know: "Three Ways to Be the Manager Your Report Needs" by Duretti Hirpa "The First Two Questions to Ask When Your Team Is Struggling" by Cate Huston "Fire Them!" by Mike Fisher "The 5

Whys of Organizational Design" by Kellan Elliott-McCrea
"Career Conversations" by Raquel Vélez "Using 6-Page Documents to Close Decisions" by Ian Nowland "Ground Rules in Meetings" by Lara Hogan