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NASA Specifications and Standards Cambridge University Press
When capital projects fail to deliver, it is usually not due to technical reasons but a combination of behavioral pitfalls, unclear accountabilities and gaps in design, specification, and/or project-management processes. Early Equipment Management (EEM): Continuous Improvement for Projects explains how well known and award winning organizations avoid these weaknesses by using: Project road maps setting out clear accountabilities for each step of the concept-to-project-delivery process; Progressive design goals for each step to assure the delivery of low life-cycle costs; Processes to codify tacit knowledge, reveal latent design weaknesses, and build high performance cross-functional team collaboration; Project governance processes that systematically raise their organizations ability to reduce time to market for new assets, products and services with higher added value and fewer resources. Hence the books title of continuous improvement for projects. The word Early in EEM refers to the principle of trapping problems as early as possible in the project process when they are cheapest to resolve. That makes EEM relevant to all projects even those that have past the design stages. To support the use of EEM at any project step, the author has designed each chapter as a standalone topic with cross references to other chapters where relevant. This book:- Explains The six EEM project delivery steps setting out the tasks and accountabilities for project teams, project managers and steering committees at each step; How to organize projects to increase project added value through the collaboration of commercial, operational and technology stakeholders The wiring up behind behaviors that contribute to the failure of traditional project management approaches and how to avoid those pitfalls; The use of projects as a vehicle for the development of internal talent and increase capital project added value The systematic development of internal capabilities to deliver flawless operation from day one in less time with less resources How raising project governance capability directly impacts on company wide management competence Uses case studies to explain how to implement the EEM methodology and Describes how EEM principles and techniques applied to product and service development (Early Product Management) multiplies the gains from EEM. This book shows readers how and why EEM works so that they can design their own EEM road map and continuous improvement process for projects.
The Fortran 2003 Handbook Routledge
This book offers an in-depth insight into the general-purpose finite element program MSC Marc, which is distributed by MSC Software Corporation. It is a specialized program for nonlinear problems (implicit solver) which is common in academia and industry. The primary goal of this book is to provide a comprehensive introduction to a special feature of this software: the user can write user-subroutines in the programming language Fortran, which is the language of all classical finite element packages. This subroutine feature allows the user to replace certain modules of the core code and to implement new features such as constitutive laws or new elements. Thus, the functionality of commercial codes (‘black box’) can easily be extended by linking user written code to the main core of the program. This feature allows to take advantage of a commercial software package with the flexibility of a ‘semi-open’ code.
The Module & Programme Development Handbook Springer
These New editions of the successful, highly-illustrated study/revision guides have been fully updated to meet the latest specification changes. Written by experienced examiners, they contain in-depth coverage of the key information plus hints, tips and guidance about how to achieve top grades in the A2 exams.
Testing in Software Development MIT Press
First published in 1993: This book is an outgrowth of fiber optic design courses given by the author.
Title List of Documents Made Publicly Available John Wiley & Sons
CD-ROM contains: Samples of all AIA contract documents.
Index of Technical and Management Information Specifications for Use on NASA Programs IOS Press
It is clear that the development of large software systems is an extremely complex activity, which is full of various opportunities to introduce errors. Software engineering is the discipline that provides methods to handle this complexity and enables us to produce reliable software systems with maximum productivity. An Integrated Approach to Software Engineering is different from other approaches because the various topics are not covered in isolation. A running case study is employed throughout the book, illustrating the different activity of software development on a single project. This work is important and instructive because it not only teaches the principles of software engineering, but also applies them to a software development project such that all aspects of development can be clearly seen on a project.
Corpus-based and Computational Approaches to Discourse Anaphora Springer Science & Business Media
If you're looking for information on how to select and install a home photovoltaic system, here's the place to start. Whether you're a student, homeowner, contractor or installer, our tutorials will walk you through the entire process. Once you're up to speed on photovoltaic components, planning and design, you can shop for the best prices and/or search for contractors in your area to install the system. Or you can go look for a job in the booming residential solar sector. A home solar electric system is basically a power plant built to serve one customer -- you. Even better, the source of its energy doesn't need to be mined, drilled or hauled anywhere for processing. There's no trail of toxic pollutants and greenhouse gases. The sun just sits there in the sky, open for business most days of the year, giving away its joules for free. Who said fighting climate change had to be difficult? With photovoltaic, you can tap into that hydrogen gold mine above as easily as flipping on a light switch in your house. It include on grid, off grid, hybrid installation for heating cooling lighting and running households and commercial appliances like pumps, motors etc. Wind energy is also included.. This book is designed for the students, engineers, contractors and self-help DIY. At the end of book solar energy glossary is also given to understand technical terms and definitions,

Residential Photovoltaic Module and Array Requirement Study Cambridge University Press
Discourse anaphora is a challenging linguistic phenomenon that has given rise to research in fields as diverse as linguistics, computational linguistics and cognitive science. Because of the diversity of approaches these fields bring to the anaphora problem, the editors of this volume argue that there needs to be a synthesis, or at least a principled attempt to draw the differing strands of anaphora research together. The selected papers in this volume all contribute to the aim of synthesis and were selected to represent the growing importance of corpus-based and computational approaches to anaphora description, and to developing natural language systems for resolving anaphora in natural language.
Fiber Optic Communications Psychology Press
The Fortran 95 Handbook, a comprehensive reference work for the Fortran programmer and implementor, contains a complete description of the Fortran 95 programming language. The chapters follow the same sequence of topics as the Fortran 95 standard, but contain a more thorough and informal explanation of the language's features and many more examples. Appendices describe all the intrinsic features, the deprecated features, and the complete syntax of the language. The Handbook also includs a feature not found in the standard: a cross reference of all the syntax terms, giving the rule that defines each term and all the rules that reference it. Major new features added in Fortran 95 are the 'FORALL' statement and construct, pure and elemental procedures, and structure and pointer default initialization.
Embedded Software Springer
For the building industry, the installation of photovoltaic systems has become a new field of activity. Interest in solar energy is growing and future business prospects are excellent. Photovoltaics for Professionals describes the practicalities of marketing, designing and installing photovoltaic systems, both grid-tied and stand-alone. It has been written for electricians, technicians, builders, architects and building engineers who want to get involved in this expanding industry. It answers all the beginner's questions as well as serving as a textbook and work of reference, provides designers and installers with practical specialist knowledge needed to design and install high quality solar electric systems and gives a comprehensive overview of the major photovoltaic market sectors. Photovoltaics for Professionals contains over 100 full colour illustrations and covers: Marketing and promoting photovoltaics Solar cells, PV modules and the solar resource Grid-tied PV systems Stand-alone PV systems Practical step-by-step examples are described of how to go about installing systems right from the first customer contact and many useful tips are given to help avoid mistakes.
Six Sigma Deployment Springer Science & Business Media
This book discusses building-integrated photovoltaic systems (BIPV) and provides solutions for solving problems related to designing, sizing and monitoring a BIPV that has been used to replace conventional building materials in parts of the building envelope such as the roof, skylights or facades. The book begins by introducing the basics to readers interested in learning about this technology and then outlines in an accessible way, a practical development plan for the installation and monitoring of these systems in residential, industrial, and commercial buildings. Chapters discuss the needs of installing, designing, and sizing and provide a financial analysis for a successful implementation of a BIPV system. This book is a useful tool for renewable energy designers, energy contractors, architects, government institutions, and those in the academic community who are interested in seamlessly integrating solar panels into the construction phase of new building projects or retrofitted into existing buildings.
Data Requirement Descriptions Index: Index of Technical and Management Information Specifications for Use on NASA Programs IWA Publishing
CASE tools have rapidly gained popularity both as a research topic and in practical information systems work. This collection of articles from some of the foremost researchers in the field provides an overview of what is currently happening in CASE research and what CASE environments of the future may look like.
Introducing Fortran 90 Springer Science & Business Media
The rapid growth in use of programmable technology, in nearly all sectors of Engineering, is a well-known established trend and one which there is every reason to believe will continue into the foreseeable future. The drivers of this trend include cost, flexibility, rich functionality and certain reliability and safety advantages. However, as explained in this book, these advantages have to be carefully weighed against a number of dis advantages which, amongst other things, have fundamental implications for reliability and safety. Ideally, a programmable system would be viewed as a fusion of hardware, software and user (or 'skinware'), operating under a set of environmental conditions. To date, such a unifying model does not exist and so hardware, software and human factors are still considered largely as three separate disciplines, albeit with certain interdependencies. Established techniques are available which enable the engineer to develop systems comprising purely hardware components to a prescribed reliability and performance. Software, however, is fundamentally different in a number of ways, and does not lend itself to equivalent analysis. A major problem with software is its poor 'visibility', and consequently the great difficulty in understanding and predicting its behaviour in all cir cumstances. This results in the ever-present software design flaws, or 'bugs', which have plagued the software industry from its beginnings.
An Integrated Approach to Software Engineering Springer
The MBR market continues to experience a massive growth. The best practice in the field is constantly changing and unique quality requirements and management issues are regularly emerging. The second edition of Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse comprehensively covers the salient features and emerging issues associated with the MBR technology. The book provides thorough coverage starting from biological aspects and fundamentals of membranes, via modeling and design concepts, to practitioners’ perspective and good application examples. In the second edition, the chapters have been updated to cover the recently emerged issues. Particularly, the book presents the current status of the technology including market drivers/ restraints and development trend. Process fundamentals (both the biological and membrane components) have received in-depth coverage in the new edition. A new chapter has been added to provide a stronger focus on reuse applications in general and the decisive role of MBR in the entire reuse chain. The second edition also comes with a new chapter containing practical design problems to complement the concepts communicated throughout the book. Other distinguishing features of the new edition are coverage of novel developments and hybrid processes for specialised wastewaters, energy efficiency and sustainability of the process, aspects of MBR process automation and recent material on case studies. The new edition is a valuable reference to the academic and professional community and suitable for undergraduate and postgraduate teaching in Environmental Engineering, Chemical Engineering and Biotechnology.

Early Equipment Management (EEM) American Library Association
Among the various types of software, Embedded Software is a class of its own: it ensures critical missions and if wrongly designed it can disturb the human organization, lead to large losses, injure or kill many people. Updates are difficult and rather expensive or even impossible. Designing Embedded Software needs to include quality in the development process, but economic competition requires designing less expensive products. This book addresses Embedded Software developers, Software Quality Engineers, Team Leaders, Project Managers, and R&D Managers. The book we will introduce Embedded Software, languages, tools and hardware. Then, we will discuss the challenges of Software Quality. Software Development life cycles will be presented with their advantages and disadvantages. Main standards and norms related to software and safety will be discussed. Next, we will detail the major development processes and propose a set of processes compliant with CMMI-DEV, SPICE, and SPICE- HIS. Agile methods as well as DO-178C and ISO 26262 will have specific focus when necessary. To finish, we will promote quality tools needed for capitalization and reaching software excellence.
Rotorcraft Dynamics 1984 Markcheck Publishing
The growing importance of the systems for symbolic computation has greatly influenced the decision of organizing DISCO '90 which is short for International Symposium on Design and Implementation of Symbolic Computation Systems. DISCO '90 focuses mainly on the most innovative methodological and technological aspects of hardware and software system design and implementation for Symbolic and Algebraic Computation, Automated Reasoning, Software Environments (Languages and User Interfaces), and Automatic Programming. In particular, it includes papers on the design and the development of significant running systems. The general objective of DISCO '90 is to present an up-to-date view of the field, while encouraging the scientific exchange among academic, industrial and user communities of the development of systems for symbolic computation.
Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse - Second Edition Letts and Lonsdale
A superior primer on software testing and quality assurance, from integration to execution and automation This important new work fills the pressing need for a user-friendly text that aims to provide software engineers, software quality professionals, software developers, and students with the fundamental developments in testing theory and common testing practices. Software Testing and Quality Assurance: Theory and Practice equips readers with a solid understanding of: Practices that support the production of quality software Software testing techniques Life-cycle models for requirements, defects, test cases, and test results Process models for units, integration, system, and acceptance testing How to build test teams, including recruiting and retaining test engineers Quality Models, Capability Maturity Model, Testing Maturity Model, and Test Process Improvement Model Expertly balancing theory with practice, and complemented with an abundance of pedagogical tools, including test questions, examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an ideal introductory text for courses in software testing, quality assurance, and software engineering.
Standard Nuclear Instrument Modules Routledge
With the increasing application of software in systems, especially safety- or even life-critical systems, it is no longer sufficient for the software developer to rely solely on testing the code produced. Testing must begin with the specification of requirements, continue on the design and finally on the implemented system. This book gives guidance on how testing can be carried out at each of the stages of software development. It does this by looking at the development process from four viewpoints: that of the intended user of the system, of its designers, of its programmers, and of the manager responsible for development. The product of each stage of development is individually examined to see how it can be checked for correctness and consistency with earlier specifications. References are given to techniques available to the software developer and there are many helpful checklists. The contributors are all members of the British Computer Society's Working Group on Testing, and between them have an impressive breadth of practical experience in the commercial development of small and large software systems. Their combined experience makes this a most valuable book for the computing professional.
Next Generation CASE Tools CRC Press
Drupal is a free and open-source content management system (CMS) that many libraries use to create well-designed, easy-to-use and manage websites. Ken Varnum guides you step by step through the decisions and tasks needed to develop and launch a Drupal-powered site and learn the advantages of the open source approach. The book offers hints and suggestions to work with your IT department, colleagues, and management as you develop your technical specifications. The implementation chapter guides you through installing Drupal, adding modules, developing your own themes (page layouts), and describes librarian created modules that have been shared with the community and can be downloaded and installed on anyone's site. You also get advice on marketing your site, best practices for project management and development, and measuring the success and impact of the site once it launches.
Software Inspection Process BoD - Books on Demand
A comprehensive guide to implementing a quality improvement method that exposes program flaws in the early stages of software design and development. A step-by-step overview of the inspection process is mapped out first. The book goes on to explore ways to integrate inspections into existing development procedures and manage the process across the scope of an entire project.