Din Standards 15288

LOGAN ELSA

Standards for Engineering Design and Manufacturing CRC Press
This textbook is intended for SPI (software process improvement) managers and - searchers, quality managers, and experienced project and research managers. The papers constitute the research proceedings of the 16th EuroSPI (European Software Process Improvement, www.eurospi.net) conference held in Alcala (Madrid region), September 2–4, 2009, Spain. Conferences have been held since 1994 in Dublin, 1995 in Vienna (Austria), 1997 in Budapest (Hungary), 1998 in Gothenburg (Sweden), 1999 in Pori (Finland), 2000 in Copenhagen (Denmark), 2001 in Limerick (Ireland), 2002 in Nuremberg (G- many), 2003 in Graz (Austria), 2004 in Trondheim (Norway), 2005 in Budapest (Hungary), 2006 in Joensuu (Finland), 2007 in Potsdam (Germany), 2008 in Dublin (Ireland), and 2009 in Alcala (Spain). EuroSPI established an experience library (library.eurospi.net) which will be conti- ously extended over the next few years and will be made available to all attendees. EuroSPI also created an umbrella initiative for establishing a European Qualification Network in which different SPINs and national initiatives join mutually beneficial collaborations (ECQA – European Certification and Qualification Association, www.ecqa.org). With a general assembly during October 15–16, 2007 through Euro-SPI partners and networks, in collaboration with the European Union (supported by the EU L- nardo da Vinci Programme) a European certification association has been created (www.eu-certificates.org, www.ecqa.org) for the IT and services sector to offer SPI knowledge and certificates to industry, establishing close knowledge transfer links between research and industry.
Software-Qualität Addison-Wesley Professional
The Basics of IT Audit: Purposes, Processes, and Practical Information provides you with a thorough, yet concise overview of IT auditing. Packed with specific examples, this book gives insight into the auditing process and explains regulations and standards such as the ISO-27000, series program, CoBIT, ITIL, Sarbanes-Oxley, and HIPPA. IT auditing occurs in some form in virtually every organization, private or public, large or small. The large number and wide variety of laws, regulations, policies, and industry standards that call for IT auditing make it hard for organizations to consistently and effectively prepare for, conduct, and respond to the results of audits, or to comply with audit requirements. This guide provides you with all the necessary information if you're preparing for an IT audit, participating in an IT audit or responding to an IT audit. - Provides a concise treatment of IT auditing, allowing you to prepare for, participate in, and respond to the results - Discusses the pros and cons of doing internal and external IT audits, including the benefits and potential drawbacks of each - Covers the basics of complex regulations and standards, such as Sarbanes-Oxley, SEC (public companies), HIPAA, and FFIEC - Includes most methods and frameworks, including GAAS, COSO, COBIT, ITIL, ISO (27000), and FISCAM
Coke & Chemistry, U.S.S.R. Springer
Das Ingenieurwissen jetzt auch in Einzelbänden verfügbar. Ökonomisch-rechtliche Grundlagen enthält die für Ingenieure und Naturwissenschaftler

wesentlichen Grundlagen in kompakter Form zum Nachschlagen bereit.
Production and Use of Coil-coated Strip Springer Science & Business Media
Dieses Buch stellt den aktuellen Wissenstand über die Techniken, Methoden, Prinzipien und organisatorischen Aspekte der Software-Qualitätssicherung nahezu lückenlos dar. Beschrieben werden Testtechniken, automatische statische Analysen, die Software-Messung, Review- und Inspektionstechniken, formale Ansätze, Techniken zur Überprüfung objektorientierter und eingebetteter Software sowie Prüfstrategien, Prüfprozesse und Werkzeuge. Das Buch richtet sich gleichermaßen an Praktiker sowie an Informatik-Dozenten und –Studierende. Es kann „von vorn nach hinten" gelesen werden oder als Nachschlagewerk dienen. Jedes Kapitel ist ein allein verständliches „kleines Buch für sich". Es beginnt jeweils mit einer kurzen Inhaltsangabe zur Orientierung und schließt mit einer Bewertung und einer Checkliste, die insbesondere dem Praktiker Umsetzungshinweise gibt. Weiterführende Informationen zum Buch finden Sie unter www.liggesmeyer.de. Die 2. Auflage ist vollständig durchgesehen und aktualisiert. Neu aufgenommen wurde ein Kapitel zu modellbasierten Tests.
Software Process Definition and Management Routledge
Significantly extended from the first edition and published in response to the new international standard ISO55000, this book on physical asset management (2nd Ed.) presents a systematic approach to the management of physical assets from concept to disposal. It introduces the general principles of physical asset management and covers all stages of the asset management process, including initial business appraisal, identification of fixed asset needs, capability gap analysis, financial evaluation, logistic support analysis, life cycle costing, management of in-service assets, maintenance strategy, outsourcing, cost-benefit analysis, disposal and renewal. Physical asset management is the management of fixed assets such as equipment, plant, buildings and infrastructure. Features include: *Suitable for university courses and builds on first edition to provide further analytical material *Aligned with the international asset management standard ISO55000 *Provides a basis for the establishment of physical asset management as a professional discipline *Presents case studies, analytical techniques and numerical examples with solutions Written for practitioners and students in asset management, this textbook provides an essential foundation to the topic. It is suitable for an advanced undergraduate or postgraduate course in asset management, and also offers an ideal reference text for engineers and managers specializing in asset management, reliability, maintenance, logistics or systems engineering.
Advances in Production Technology Walter de Gruyter
This book shows how to build in and assess reliability, availability, maintainability, and safety (RAMS) of components, equipment, and systems. It presents the state of the art of reliability (RAMS) engineering, in theory & practice, and is based on over 30 years author's experience in this field, half in industry and half as Professor of Reliability Engineering at the ETH, Zurich. The book structure allows rapid access to practical results. Methods & tools are given in a way that they can be tailored to cover different RAMS requirement levels. Thanks to Appendices A6 - A8 the book is mathematically self-contained, and can be used as a textbook or as a desktop reference with a large number of tables (60), figures (210), and examples / exercises^ 10,000 per year since 2013) were the motivation for this final edition, the 13th since 1985, including German editions. Extended and carefully reviewed to improve accuracy, it represents the continuous improvement effort to satisfy reader's needs and confidence. New are an introduction to risk management with structurally new models based on semi-Markov processes & to the concept of mean time to accident, reliability & availability of a k-out-of-n redundancy with arbitrary repair rate for n - k=2, 10 new homework problems, and refinements, in particular, on multiple failure mechanisms, approximate expressions, incomplete coverage, data analysis, and comments on ë, MTBF, MTTF, MTTR, R, PA.
Intelligence Systeme im Logistik- und Supply Chain Management Beuth Verlag
Architectures for Enterprise Integration describes the latest methods to guide enterprises and consultants, managers and technical personnel through a complete life-cycle of enterprise development. This book is based on the findings of the IFIP/IFAC Task Force and presents the state-of-the-art in enterprise architecture. This book is essential reading for all practising engineers and researchers in manufacturing and engineering management with special interest for those involved in CIM and Enterprise Modelling and Integration.
Physical Asset Management Springer
This book provides a comprehensive overview of the field of software processes, covering in particular the following essential topics: software process modelling, software process and lifecycle models, software process management, deployment and governance, and software process improvement (including assessment and measurement). It does not propose any new processes or methods; rather, it introduces students and software engineers to software processes and life cycle models, covering the different types ranging from “classical”, plan-driven via hybrid to agile approaches. The book is structured as follows: In chapter 1, the fundamentals of the topic are introduced: the basic concepts, a historical overview, and the terminology used. Next, chapter 2 covers the various approaches to modelling software processes and lifecycle models, before chapter 3 discusses the contents of these models, addressing plan-driven, agile and hybrid approaches. The following three chapters address various aspects of using software processes and lifecycle models within organisations, and consider the management of these processes, their assessment and improvement, and the measurement of both software and software processes. Working with software processes normally involves various tools, which are the focus of chapter 7, before a look at current trends in software processes in chapter 8 rounds out the book. This book is mainly intended for graduate students and practicing professionals. It can be used as a textbook for courses and lectures, for self-study, and as a reference guide. When used as a textbook, it may support courses and lectures on software processes, or be used as complementary literature for more basic courses, such as introductory courses on software engineering or project management. To this end, it includes a wealth of examples and case studies, and each chapter is complemented by exercises that help readers gain a better command of the concepts discussed.
Oceanographic Report Springer
Das V-Modell XT ist ein umfassendes Prozessmodell für die Planung und Durchführung der Systementwicklung in IT-Projekten. Es ist seit Februar 2005 für alle IT-Projekte der deutschen Bundesbehörden verbindlich und liegt seit Juni 2006 in der wesentlich erweiterten Version 1.2.1 vor. Das Buch führt an die etablierte Fachsprache anbindend in alle Konzepte des V-Modell XT und deren Begrifflichkeit ein und ist Mediator zwischen der Lehre des System Engineering, dem V-Modell-XT-Katalog und der Anwendungspraxis. Es dient als Begleiter für die Konfiguration von V-Modell XT-basierten Projekten wie auch als Ratgeber für die organisatorische Implementierung im Unternehmen. Mit dem V-Modell XT wurden völlig neue Konzepte geschaffen und ein größeres Leistungsspektrum einbezogen, um die verschiedenen IT-Projekttypen genauer und flexibler fokussieren zu können. Das Buch ist gleichsam als Grundlage für Vorlesungen geeignet, wie auch für die autodidaktische Erschließung durch den fachkundigen Leser.
HCI in Mobility, Transport, and Automotive Systems Springer Science & Business Media
The authors explain the underlying software development principles behind theRUP, and guide readers in its application in their organization.
Physical Asset Management dpunkt.verlag
This book constitutes the refereed proceedings of the 4th International Conference on HCI in Mobility, Transport, and Automotive Systems, MobiTAS 2022, held as part of the 23rd International Conference, HCI International 2022, which was held virtually in June/July 2022. The total of 1271 papers and 275 posters included in the HCII 2022 proceedings was carefully reviewed and selected from 5487 submissions. The MobiTAS 2022 proceedings were organized in the following topical sections: Designing Interactions in the Mobility, Transport, and Automotive Context; Human-Centered Design of Automotive Systems; Driver Information and Assistance Systems; Studies on Automated Driving; and Micro-mobility and Urban Mobility.
Value-Based Engineering Springer Nature
Das umfassende Handbuch zum Requirements Engineering eingeführtes Standardwerk nun in 7. Auflage! hoher Praxisbezug direkt anwendbare Checklisten und Praxistipps Dieses Buch beschreibt praxisorientiert und systematisch das Requirements Engineering vom Konzept über Analyse und Realisierung bis zur Wartung und Evolution eines Produkts. Requirements Engineering mit seinen Methoden, Modellen, Notationen und Werkzeugen wird eingeführt. Ein durchgängiges Beispiel sowie viele industrielle Praxiserfahrungen illustrieren die Umsetzung. Direkt anwendbare Checklisten und Praxistipps runden jedes Kapitel ab. Lesen Sie das Buch, um – Requirements Engineering kennenzulernen, – Ihre Projekte und Produkte erfolgreich zu liefern, – agile Entwicklung beispielsweise mit testorientierten Anforderungen umzusetzen, - industrieerprobte Techniken des Requirements Engineering produktiv zu nutzen. Diese 7. Auflage wurde in vielen Aspekten aktualisiert und berücksichtigt den aktuellen Lehrplan des IREB®-Zertifizierungsprogramms.
Das Ingenieurwissen: Ökonomisch-rechtliche Grundlagen Springer
Most books on standardization describe the impact of ISO and related organizations on many industries. While this is great for managing an organization, it leaves engineers asking questions such aswhat are the effects of standards on my designs? andhow can I use standardization to benefit my work? Standards for Engineering Design and Manuf
Systematisches Requirements Engineering Burns & Oates
Alexander Haas schafft mit der Entwicklung der Intelligence Systeme als mögliche Weiterentwicklung der Business Intelligence und deren konkreter Anwendung im Logistik- und Supply Chain Management einen Ansatz, den Herausforderungen der Digitalisierung entgegen zu treten. Dazu wird ein zentrales Lebenszyklusmodell entworfen, welches modular aus Referenz- und Vorgehensmodellen zur Beschreibung und Lösung relevanter digitaler Probleme in den Anwendungsdomänen des Logistik- und Supply Chain Managements dient.
Basiswissen ITIL 4 Springer Science & Business Media
Presents the theory and methodology for reliability assessments of safety-critical functions through examples from a wide range of applications Reliability of Safety-Critical Systems: Theory and Applications provides a comprehensive introduction to reliability assessments of safety-related systems based on electrical, electronic, and programmable electronic (E/E/PE) technology. With a focus on the design and development phases of safety-critical systems, the book presents theory and methods required to document compliance with IEC 61508 and the associated sector-specific standards. Combining theory and practical applications, Reliability of Safety-Critical Systems: Theory and Applications implements key safety-related strategies and methods to meet quantitative safety integrity requirements. In addition, the book details a variety of reliability analysis methods that are needed during all stages of a safety-critical system, beginning with specification and design and advancing to operations, maintenance, and modification control. The key categories of safety life-cycle phases are featured, including strategies for the allocation of reliability performance requirements; assessment methods in relation to design; and reliability quantification in relation to operation and maintenance. Issues and benefits that arise from complex modern technology developments are featured, as well as: Real-world examples from large industry facilities with major accident potential and products owned by the general public such as cars and tools Plentiful worked examples throughout that provide readers with a deeper understanding of the core concepts and aid in the analysis and solution of common issues when assessing all facets of safety-critical systems Approaches that work on a wide scope of applications and can be applied to the analysis of any safety-critical system A brief appendix of probability theory for reference With an emphasis on how safety-critical functions are introduced into systems and facilities to prevent or mitigate the impact of an accident, this book is an excellent guide for professionals, consultants, and operators of safety-critical systems who carry out practical, risk, and reliability assessments of safety-critical systems. Reliability of Safety-Critical Systems: Theory and Applications is also a useful textbook for courses in reliability assessment of safety-critical systems and reliability engineering at the graduate-level, as well as for consulting companies offering short courses in reliability assessment of safety-critical systems.
Systemanalyse im Unternehmen Lulu.com
Fully updated and in line with latest specifications, this textbook integrates vehicle maintenance procedures, making it the indispensable first classroom and workshop text for all students of motor vehicle engineering, apprentices and keen amateurs. Its clear, logical approach, excellent illustrations and step-by-step development of theory and practice make this an accessible text for students of all abilities. With this book, students have information that they can trust because it is written by an experienced practitioner and lecturer in this area. This book will provide not only the information required to understand automotive engines but also background information that allows readers to put this information into context. The book contains flowcharts, diagnostic case studies, detailed diagrams of how systems operate and overview descriptions of how systems work. All this on top of step-by-step instructions and quick reference tables. Readers won't get bored when working through this book with questions and answers that aid learning and revision included.
Best Practices in Software Measurement Springer Science & Business Media

In diesem Buch werden klassische Grundlagen der Systemanalyse, aktuelle Wissenspotenziale und zukünftige Entwicklungen beschrieben, die teilweise auch noch Gegenstand der Forschung sind. Es ist ein Leitfaden für den Praktiker, eine Arbeitshilfe für Studierende und eine pointierte Zusammenfassung wichtiger Fakten für den Wissenschaftler.
Systems Engineering with SysML/UML Springer-Verlag
The concept of processes is at the heart of software and systems engineering. Software process models integrate software engineering methods and techniques and are the basis for managing large-scale software and IT projects. High product quality routinely results from high process quality. Software process management deals with getting and maintaining control over processes and their evolution. Becoming acquainted with existing software process models is not enough, though. It is important to understand how to select, define, manage, deploy, evaluate, and systematically evolve software process models so that they suitably address the problems, applications, and environments to which they are applied. Providing basic knowledge for these important tasks is the main goal of this textbook. Münch and his co-authors aim at providing knowledge that enables readers to develop useful process models that are suitable for their own purposes. They start with the basic concepts. Subsequently, existing representative process models are introduced, followed by a description of how to create individual models and the necessary means for doing so (i.e., notations and tools). Lastly, different possible usage scenarios for process management are highlighted (e.g. process improvement and software process simulation). Their book is aimed at students and researchers working on software project management, software quality assurance, and software measurement; and at practitioners who are interested in process definition and management for developing, maintaining, and operating software-intensive systems and services.
Softwareprozessverbesserungsprojekte BoD – Books on Demand
IBIM ist die Methode der Zukunft, so viel ist unstrittig. Doch BIM ist durchaus schon in der Gegenwart angekommen. Das gilt auch für den Einsatz von BIM in der TGA. Nirgends sonst lassen sich Prozesse so ganzheitlich und gezielt ansteuern und ist übergreifende Kommunikation möglich. Der Sprung zur Anwendung von BIM ist nicht nur einer von 2D zu 3D, sondern in eine ganze neue Welt der Vernetzung. BIM bietet in der TGA erhebliche Potenziale, die den Umstieg auf die Methode rechtfertigen. Das vorliegende Buch enthält grundlegende Informationen zu Themen wie Referenzkennzeichnung und den Systemen der Technischen Gebäudeausrüstung, sowie deren Dokumentation in Planung, Ausführung und Betrieb aus informationstechnischer Sicht. Der Referenzkennzeichnung kommt dabei eine besondere Rolle zu: Sie bildet die methodische Grundlage für das Engineering mittels BIM. Sie ermöglicht die Verwaltung und Dokumentation von technischen Objekten und gibt Informationen zu den Objekten und ihren Relationen. In der hier vorliegenden 3. Auflage von „BIM und TGA“ wurden die Inhalte überarbeitet und an den aktuellen Stand der Technik angepasst. Einige Punkte wurden vertieft, und neue Praxisbeispiele hinzugefügt. „BIM und TGA“ ist ein handlicher Ratgeber, der keine Fragen zum Thema Building Information Modeling in der Technischen Gebäudeausrüstung offen lässt, und der das spezifische Know-how in leicht verständlicher und praxisnaher Form vermittelt.
Notions de système et d'ingénierie de système Elsevier
Das umfassende Lern- und Nachschlagewerk zu ITIL 4 in deutscher Sprache Alle wichtigen Grundlagen zum IT Service Management, ITIL und ITIL 4 Vorstellung der neuen Modelle und Prinzipien von ITIL 4 entsprechend dem offiziellen Lehrplan Mehr als 40 Seiten Übungsfragen für die ITIL-4-Foundation-Zertifizierungsprüfung Dieses Lern- und Nachschlagewerk bietet Ihnen einen umfassenden Einstieg in die aktuelle Version von ITIL und vermittelt das notwendige Wissen für die ITIL-4-Basis-Zertifizierung. Es wendet sich damit an drei Zielgruppen: - Einsteiger ins IT Service Management mit ITIL finden hier Grundlagenwissen und Beispiele. Sie werden mit den Neuerungen von ITIL 4 vertraut gemacht. - Leser mit ITIL-Erfahrung können das Buch zum Vertiefen von Details und als Nachschlagewerk bei der täglichen Arbeit nutzen. - Praktiker, die die ITIL-4-Foundation-Zertifizierung ablegen wollen, bereiten sich mithilfe von Übungsfragen auf die Prüfung vor. Zudem liefert das Buch Hintergrundinformationen zu zahlreichen Aspekten, die die neue ITIL-Version aufgegriffen hat. Im Mittelpunkt stehen sowohl Grundlagenkenntnisse zum IT Service Management als auch konkretes Wissen rund um die ITIL-4-Konzepte, die vier Dimensionen im IT Service Management und das Service-Wertsystem (Service Value System). Schritt für Schritt erläutert ITIL-Exeprtin Nadin Ebel die Bestandteile der Modelle im ITIL-Framework und beschreibt anschaulich die Grundprinzipien, die Service Value Chain, die Practices und die weiteren Bestandteile sowie deren Zusammenspiel. Außerdem geht die Autorin darauf ein, in welchem Zusammenhang ITIL 4 zu aktuellen Begriffen und Ansätzen wie Agilität, Cloud, Design Thinking, DevOps oder Lean Management steht. Zahlreiche Fragen mit Antworten und Erläuterungen zu allen Aspekten des ITIL-4-Frameworks ermöglichen Ihnen eine effektive Lernkontrolle sowie eine praxisnahe Vorbereitung auf die ITIL-4-Foundation-Prüfung. Die Inhalte und Vorbereitungsfragen decken den offiziellen ITIL-4-Lehrplan ab. Darüber hinaus helfen die umfangreichen Erläuterungen auch bei der Vorbereitung auf die weitergehenden ITIL-Zertifizierungen.