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LEAN AND DIGITIZE

AN INTEGRATED APPROACH TO PROCESS IMPROVEMENT

Routledge Lean and Six Sigma initiatives are designed to enable sustained improvements in your company or organization's efficiency and competitiveness. As with other improvement strategies they are dependent on two things, effective management and your ability to automate or digitize elements of your business process. Lean and Digitize provides you with a convincing picture of each of these elements (process improvement, digitization and the management of both) to help you eliminate waste, improve process and service, and better align your information and communications technology with your strategic objectives. Bernardo Nicoletti analyses and reviews the development of automation and telecommunications systems in the context of quality management and process improvement. He uses case examples to illustrate organizational and management approaches to implementation. These, along with his practical guidance, will help you make sense of the complexity, benefits and interrelations between these different elements. The text shows you on the one hand, how to integrate information and communication systems into your process improvement projects and, on the other, how to align information and communication projects with your quality strategy. Without a holistic approach to technology and quality improvement, your initiatives run the risk of being misdirected or simply running out of steam. Changes of this kind will never be easy but at least if you follow the advice in Lean and Digitize you will significantly increase your chances of success.

INGEGNERIA DEL SOFTWARE

FONDAMENTI E PRINCIPI

Pearson Italia S.p.a. Traduzione della seconda edizione inglese, questo testo presenta, con uno stile conciso e accurato, i principi fondamentali dell'ingegneria del software, illustrandone l'applicazione durante le differenti fasi dello sviluppo di un prodotto applicativo. Il leit-motiv che lega la trattazione dei diversi capitoli è l'enfasi che gli autori pongono sull'importanza di un approccio rigoroso e formale. Il libro è pensato sia per i corsi della laurea triennale sia per quelli della laurea specialistica, ma gli argomenti trattati possono essere utilizzati anche per la preparazione di corsi professionali sui vari aspetti dell'ingegneria del software, e consentono anche un percorso di auto-apprendimento. Annotation Supplied by Informazioni Editoriali

IL CANTIERE SICURO

TECNICA DELLA PREVENZIONE INFORTUNI NEI CANTIERI EDILI E DI INGEGNERIA CIVILE. AGGIORNATO AL DECRETO DEL FARE (D.L. 69/2013 CONVERTITO CON L. 98/2013). CONTIENE SOFTWARE PER LA GESTIONE DEGLI ADEMPIMENTI DI CANTIERE CON BANCA DATI COMPLETA DI MODULISTICA

EPC srl Cantieri a prova di incidenti. Ecco un testo chiave per lavorare in sicurezza in questo delicato settore rispettando le norme in vigore e riducendo al minimo il rischio di incidenti. La formula del volume ha già riscosso un notevole successo fra gli addetti ai lavori nelle sue precedenti edizioni. Il suo taglio tecnico e l'organizzazione tematica degli argomenti trattati rendono il testo facilmente fruibile sia dal lettore specialistico che dall'operatore di cantiere che deve tradurre norme, disposizioni e conoscenze nella pratica del lavoro quotidiano. Il testo è strutturato in cinque parti. La prima è dedicata alla spiegazione del modello legislativo da attuare nei cantieri temporanei o mobili, previsto dal D.Lgs. 81/2008. La seconda parte affronta il tema dell'organizzazione del cantiere e lo sviluppa con un taglio tipicamente progettuale. La terza e quarta parte forniscono le informazioni indispensabili per l'utilizzo in sicurezza e il controllo di conformità delle opere provvisorie (dai ponteggi alle armature degli scavi) e delle attrezzature di cantiere. Chiude l'opera la parte dedicata all'utilizzo del software allegato: un prodotto importante che permette la gestione degli adempimenti utilizzando una banca dati completa di modulistica. Il volume è arricchito da diverse centinaia di tabelle, elaborati grafici, fotografie con l'intento di facilitare l'esposizione degli argomenti sviluppati. Un testo da non perdere non solo per i tecnici della prevenzione infortuni e per le imprese del settore delle costruzioni ma anche per tutti coloro che si occupano dei corsi di formazione dei coordinatori per la sicurezza nei cantieri edili o di ingegneria civile. Il volume è aggiornato alle norme di più recente emanazione.

BUILDING SECURE AND RELIABLE SYSTEMS

BEST PRACTICES FOR DESIGNING, IMPLEMENTING, AND MAINTAINING SYSTEMS

O'Reilly Media Can a system be considered truly reliable if it isn't fundamentally secure? Or can it be considered secure if it's unreliable? Security is crucial to the design and operation of scalable systems in production, as it plays an important part in product quality, performance, and availability. In this book, experts from Google share best practices to help your organization design scalable and reliable systems that are fundamentally secure. Two previous O'Reilly books from Google—Site Reliability Engineering and The Site Reliability Workbook—demonstrated how and why a commitment to the entire service lifecycle enables organizations to successfully build, deploy, monitor, and maintain software systems. In this latest guide, the authors offer insights into system design, implementation, and maintenance from practitioners who specialize in security and reliability. They also discuss how building and adopting their recommended best practices requires a culture that's supportive of such change. You'll learn about secure and reliable systems through: Design strategies Recommendations for coding, testing, and debugging practices Strategies to prepare for, respond to, and recover from incidents Cultural best practices that help teams across your organization collaborate effectively

PORROSOFTWARE - INFORMATICA

PorroSoftware Informatica Generale

SITE RELIABILITY ENGINEERING

HOW GOOGLE RUNS PRODUCTION SYSTEMS

"O'Reilly Media, Inc." In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world.

SOFTWARE ENGINEERING AT GOOGLE

LESSONS LEARNED FROM PROGRAMMING OVER TIME

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

INTERACTION DESIGN

OLTRE L'INTERAZIONE UOMO-MACCHINA

Apogeo Editore L'Interaction Design si occupa della progettazione di prodotti e servizi nei quali è presente un'interazione tra persone e macchine. Si tratta di una disciplina dalla forte valenza applicativa che ha acquisito grande importanza con il dilagare della tecnologia nella nostra vita. Coinvolge aspetti cognitivi, sociali ed emotivi, e gli strumenti impiegati derivano da campi diversi, dalla psicologia all'antropologia fino all'informatica. Questo volume insegna la pratica dell'Interaction Design dalle basi, mostrando non solo quali principi applicare e come, ma anche come integrarli con le metodologie Agile e Lean, la data analysis, il design di interfacce e la teoria contemporanea sulla cognizione umana. Arricchito da esercitazioni e interviste a esperti del settore, questo manuale è una guida fondamentale per studenti e professionisti che vogliono acquisire le competenze necessarie per operare nel campo della progettazione dell'interazione uomo-macchin

THE SITE RELIABILITY WORKBOOK

PRACTICAL WAYS TO IMPLEMENT SRE

"O'Reilly Media, Inc." In 2016, Google's Site Reliability Engineering book ignited an industry discussion on what it means to run production services today—and why reliability considerations are fundamental to service design. Now, Google engineers who worked on that bestseller introduce The Site Reliability Workbook, a hands-on companion that uses concrete examples to show you how to put SRE principles and practices to work in your environment. This new workbook not only combines practical examples from Google's experiences, but also provides case studies from Google's Cloud Platform customers who underwent this journey. Evernote, The Home Depot, The New York Times, and other companies outline hard-won experiences of what worked for them and what didn't. Dive into this

workbook and learn how to flesh out your own SRE practice, no matter what size your company is. You'll learn: How to run reliable services in environments you don't completely control—like cloud Practical applications of how to create, monitor, and run your services via Service Level Objectives How to convert existing ops teams to SRE—including how to dig out of operational overload Methods for starting SRE from either greenfield or brownfield

PHOTOSHOP 7 FOR DUMMIES

Apogeo Editore

IL PROGETTO DI SISTEMI INFORMATIVI. CON INDICAZIONI SU STUDIO DI FATTIBILITÀ E LINEE GUIDA AIPA

FrancoAngeli

LINEE GUIDA PER L'ANALISI E IL PROGETTO DI RETI URBANE DI TRASPORTO. METODOLOGIE: STATO DELL'ARTE E MODELLI

PROGETTARE COSTRUZIONI IN ACCIAIO. NORMATIVA EUROPEA. STATI LIMITE. SAGOMARIO. SOFTWARE PER IL CALCOLO. CON CD-ROM

HOEPLI EDITORE

SOFTWARE ENGINEERING

Pearson Higher Ed This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Intended for introductory and advanced courses in software engineering. The ninth edition of Software Engineering presents a broad perspective of software engineering, focusing on the processes and techniques fundamental to the creation of reliable, software systems. Increased coverage of agile methods and software reuse, along with coverage of 'traditional' plan-driven software engineering, gives readers the most up-to-date view of the field currently available. Practical case studies, a full set of easy-to-access supplements, and extensive web resources make teaching the course easier than ever. The book is now structured into four parts: 1: Introduction to Software Engineering 2: Dependability and Security 3: Advanced Software Engineering 4: Software Engineering Management

IDROGEOLOGIA E OPERE DI DIFESA IDRAULICA

RISCHIO IDRAULICO E IDROGEOLOGICO CON PROCESSI DI MODELLAMENTO DEI VERSANTI. CONTIENE IL SOFTWARE HYDROSEZ PER IL CALCOLO E LA VERIFICA DELLE SEZIONI IDRAULICHE IN REGIME DI MOTO UNIFORME

EPC srl Un manuale a 360 gradi scritto per tutti coloro che operano nel settore dell'idrogeologia e delle opere di difesa idraulica. Attività che devono fare i conti con argomenti complessi, che richiedono agli operatori un forte sforzo di aggiornamento. Il volume viene incontro alle esigenze di praticità e semplicità della lettura. I temi inseriti nel testo sono stati organizzati e sviluppati in maniera semplice e graduale, in modo da fornire al lettore tutte le informazioni per meglio comprenderne i concetti esposti. Inoltre allegato al volume un cd-rom contenente il software HydroSez per il calcolo e la verifica delle sezioni idrauliche a "pelo libero" in regime di moto uniforme. Sviluppato con la nuova ed ormai diffusa tecnologia .Net, si presenta con un'interfaccia grafica molto semplice ed intuitiva, ben curata ed organizzata. Fra le peculiarità del software troviamo la possibilità di eseguire il calcolo mediante diverse formule per svariate sezioni (circolare, rettangolare, trapezia, con banchina e savanella ecc.), oltre alla possibilità di esportare i dati in formato Excel® o compatibile. In conclusione, un libro chiave, unico nel suo genere, corredato da numerose illustrazioni grafiche di ottima qualità, da consigliare e da non perdere assolutamente. Si rivolge ai tecnici professionisti, quali ingegneri, architetti, geologi, geometri e periti, che operano nel settore.

REVERSING

SECRETS OF REVERSE ENGINEERING

John Wiley & Sons Beginning with a basic primer on reverse engineering—including computer internals, operating systems, and assembly language—and then discussing the various applications of reverse engineering, this book provides readers with practical, in-depth techniques for software reverse engineering. The book is broken into two parts, the first deals with security-related reverse engineering and the second explores the more practical aspects of reverse engineering. In addition, the author explains how to reverse engineer a third-party software library to improve interfacing and how to reverse engineer a competitor's software to build a better product. * The first popular book to show how software reverse engineering can help defend against security threats, speed up development, and unlock the secrets of competitive products * Helps developers plug security holes by demonstrating how hackers exploit reverse engineering techniques to crack copy-protection schemes and identify software targets for viruses and other malware * Offers a primer on advanced reverse-engineering, delving into "disassembly"-code-level reverse engineering—and explaining how to decipher assembly language

ENGINEERING WEB APPLICATIONS

Springer Science & Business Media Nowadays, Web applications are almost omnipresent. The Web has become a platform not only for information delivery, but also for eCommerce systems, social networks, mobile services, and distributed learning environments. Engineering Web applications involves many intrinsic challenges due to their distributed nature, content orientation, and the requirement to make them available to a wide spectrum of users who are unknown in advance. The authors discuss these challenges in the context of well-established engineering processes, covering the whole product lifecycle from requirements engineering through design and implementation to deployment and maintenance. They stress the importance of models in Web application development, and they compare well-known Web-specific development processes like WebML, WSDM and OOHDM to traditional software development approaches like the waterfall model and the spiral model. .

SOFTWARE ENGINEERING, GLOBAL EDITION

Pearson Higher Ed For courses in computer science and software engineering The Fundamental Practice of Software Engineering Software Engineering introduces students to the overwhelmingly important subject of software programming and development. In the past few years, computer systems have come to dominate not just our technological growth, but the foundations of our world's major industries. This text seeks to lay out the fundamental concepts of this huge and continually growing subject area in a clear and comprehensive manner. The 10th Edition contains new information that highlights various technological updates of recent years, providing students with highly relevant and current information. Sommerville's experience in system dependability and systems engineering guides the text through a traditional plan-based approach that incorporates some novel agile methods. The text strives to teach the innovators of tomorrow how to create software that will make our world a better, safer, and more advanced place to live. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

PROBABILITÀ E STATISTICA PER L'INGEGNERIA E LE SCIENZE

DIGITAL TRANSFORMATION OF THE DESIGN, CONSTRUCTION AND MANAGEMENT PROCESSES OF THE BUILT ENVIRONMENT

Springer Nature This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector.

CAD/CAM 3D. STUDI DI PROGETTAZIONE E PRODUZIONE DI UN COMPONENTE MECCANICO

STEEL CONNECTION ANALYSIS

John Wiley & Sons First book to discuss the analysis of structural steel connections by Finite Element Analysis—which provides fast, efficient, and flexible checking of these vital structural components The analysis of steel structures is complex—much more so than the analysis of similar concrete structures. There are no universally accepted rules for the analysis of connections in steel structures or the analysis of the stresses transferred from one connection to another. This book presents a general approach to steel connection analysis and check, which is the result of independent research that began more than fifteen years ago. It discusses the problems of connection analysis and describes a generally applicable methodology, based on Finite Element Analysis, for analyzing the connections in steel structures. That methodology has been implemented in software successfully, providing a fast, automatic, and flexible route to the design and analysis of the connections in steel structures. Steel Connection Analysis explains several general methods which have been researched and programmed during many years, and that can be used to tackle the problem of connection analysis in a very general way, with a limited and automated computational effort. It also covers several problems related to steel connection analysis automation. Uses Finite Element Analysis to discuss the analysis of structural steel connections Analysis is applicable to all connections in steel structures The methodology is the basis of the commercially successful CSE connection analysis software Analysis is fast and flexible Structural engineers, fabricators, software developing firms, university researchers, and advanced students of civil and structural engineering will all benefit from Steel Connection Analysis.

MICROWAVE ENGINEERING

John Wiley & Sons Pozar's new edition of Microwave Engineering includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

ADVANCES ON MECHANICS, DESIGN ENGINEERING AND MANUFACTURING III

PROCEEDINGS OF THE INTERNATIONAL JOINT CONFERENCE ON MECHANICS, DESIGN ENGINEERING & ADVANCED MANUFACTURING, JCM 2020, JUNE 2-4, 2020

Springer Nature This open access book gathers contributions presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2020), held as a web conference on June 2-4, 2020. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is organized into four main parts, reflecting the focus and primary themes of the conference. The contributions presented here not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed and future interdisciplinary collaborations.

ARCHEOLOGIA DELL'ARCHITETTURA XIX, 2014

All'Insegna del Giglio I contributi di questo numero, presentando nuove idee e riflessioni su alcuni aspetti teorico-metodologici dell'Archeologia dell'architettura, riprendono la discussione, che negli ultimi anni si era affievolita, sui principi e sulle pratiche di questa disciplina. In questa prospettiva integrano i molti manuali usciti recentemente. La possibilità di sviluppare la ricerca archeosismologica in architettura costituisce il tema di due distinti contributi. Il primo studia i marcati danneggiamenti osservabili in un singolo monumento, l'antica chiesa dei Santi Vittore e Corona a Feltre. Dopo aver definito i criteri generali in base ai quali proporre di considerare un danno come effetto di azioni sismiche, escludendo altre cause, ritiene, applicando appunto tali criteri, che i dissesti strutturali osservati a S. Vittore siano di origine sismica. Li inserisce nella lettura e interpretazione stratigrafico-costruttiva del complesso, giungendo a riferirli infine ad un evento sismico storicamente conosciuto. Il secondo studio opera invece a scala territoriale, investendo, numerosi edifici in centri diversi del Mugello. Confronta gli effetti direttamente riscontrati con i dati ricavabili da fonti documentarie, in un'area investita nell'ultimo millennio da più eventi sismici distruttivi. Anna Saetta ed Irene Rocca, affrontano, sulla base del terremoto dell'Emilia, i temi tecnici dell'azione e degli effetti di un sisma, in un contributo pubblicato negli atti della Summer School di Stenico, in Trentino (4-8 luglio 2011), il cui scopo era di mettere a confronto, nello studio delle architetture, i differenti percorsi di archeologi, architetti ed ingegneri strutturalisti. Vi si trovano anche riflessioni più generali sui rapporti tra le discipline che studiano le architetture (Gian Pietro Brogiolo), sui metodi di lettura, restituzione e interpretazione delle strutture in muratura e in legno (Paolo Faccio), sugli usi e sui significati, oggi, delle architetture storiche (Alberto Ferlenga). Chiudono il volume i materiali prodotti dagli allievi della Summer (archeologi, architetti ed ingegneri) sul caso studio di due edifici di Stenico (Trento).

PROGRAMMING WITH C++20

CONCEPTS, COROUTINES, RANGES, AND MORE

Fertig Publications Programming with C++20 teaches programmers with C++ experience the new features of C++20 and how to apply them. It does so by assuming C++11 knowledge. Elements of the standards between C++11 and C++20 will be briefly introduced, if necessary. However, the focus is on teaching the features of C++20. You will start with learning about the so-called big four Concepts, Coroutines, std::ranges, and modules. The big four are followed by smaller yet not less important features. You will learn about std::format, the new way to format a string in C++. In chapter 6, you will learn about a new operator, the so-called spaceship operator, which makes you write less code. You then will look at various improvements of the language, ensuring more consistency and reducing surprises. You will learn how lambdas improved in C++20 and what new elements you can now pass as non-type template parameters. Your next stop is the improvements to the STL. Of course, you will not end this book without learning about what happened in the constexpr-world.

BIM PER INFRASTRUTTURE

IL BUILDING INFORMATION MODELING PER LE GRANDI OPERE LINEARI PREFAZIONE DI PIETRO BARATONO

EPC srl Il Building Information Modeling (BIM) per le infrastrutture è il sistema di gestione digitale dei processi informativi per la progettazione, la costruzione e la gestione di opere lineari. In Italia la norma UNI 11337:2017 è il riferimento nazionale per tali attività. Il "Decreto BIM" (D.M. 560/2017), attuativo del Codice dei contratti pubblici, stabilisce le modalità e i tempi di progressiva introduzione del BIM da parte delle stazioni appaltanti e degli operatori economici. L'obbligatorietà del BIM nelle opere pubbliche è fissata a decorrere dal 1° gennaio 2019 per i lavori complessi di importo a base di gara pari, o superiore, a 100 milioni di euro, interessando quindi, per prime le grandi opere pubbliche. In base al D.M. 560 le stazioni appaltanti dovranno adottare piani di formazione del personale e di acquisizione hardware, e software, per l'utilizzo di piattaforme interoperabili in formati aperti non proprietari. La digitalizzazione delle infrastrutture implica pertanto la formazione di nuove figure professionali altamente qualificate, con ruoli specifici, da inserire nei relativi flussi di lavoro. I principali profili professionali da formare sono: il gestore e il coordinatore delle informazioni, e a livello operativo, il modellatore. L'introduzione del BIM può contribuire alla razionalizzazione del comparto produttivo nel suo complesso, apportando benefici alla spesa pubblica e incrementando l'efficienza, e la corrispondente redditività, degli attori del settore. Nel volume sono descritte le tecnologie e le procedure specifiche della innovazione di processo introdotta dal BIM. Il testo si rivolge a stazioni appaltanti, imprese appaltatrici e società di ingegneria del comparto infrastrutturale. BIM PER INFRASTRUTTURE è un agile strumento per l'apprendimento dei punti salienti del cosiddetto BIM "orizzontale" o "pesante", utile non solo agli allievi delle Facoltà di Ingegneria ma più in generale ai tecnici, che impegnati nei diversi ruoli professionali, partecipano al processo di costruzione e manutenzione delle grandi opere di pubblica utilità.

INTRODUCTION TO DIGITAL SYSTEMS DESIGN

Springer This book has been designed for a first course on digital design for engineering and computer science students. It offers an extensive introduction on fundamental theories, from Boolean algebra and binary arithmetic to sequential networks and finite state machines, together with the essential tools to design and simulate systems composed of a controller and a datapath. The numerous worked examples and solved exercises allow a better understanding and more effective learning. All of the examples and exercises can be run on the Deeds software, freely available online on a webpage developed and maintained by the authors. Thanks to the learning-by-doing approach and the plentiful examples, no prior knowledge in electronics of programming is required. Moreover, the book can be adapted to different level of education, with different targets and depth, be used for self-study, and even independently from the simulator. The book draws on the authors' extensive experience in teaching and developing learning materials.

INTRODUZIONE AL PROGETTO DI SISTEMI DIGITALI

Springer Il testo, concepito per studenti di un primo corso di reti logiche nelle Facoltà di Ingegneria e di Scienze, fornisce una solida conoscenza delle basi teoriche delle reti logiche. Parte dall'algebra booleana e dall'aritmetica binaria, e passando per le reti sequenziali e le macchine a stati finite, accompagna i lettori nella progettazione e simulazione di sistemi formati da controllore e datapath. L'apprendimento delle parti teoriche è facilitato dalla presentazione di numerosi esempi ed esercizi, tutti risolti per esteso. Un sito web di libero accesso ospita il software Deeds (Digital Electronics Education and Design Suite), creato e mantenuto dagli autori, e contenente tutto il materiale necessario per la simulazione con Deeds dei numerosi esempi ed esercizi affrontati nel testo. Strutturato in modo da adattarsi a diverse esigenze didattiche, questo testo non richiede conoscenze preliminari in campo elettronico o informatico. Inoltre, grazie al supporto fornito da Deeds, rappresenta un libro ideale per l'auto-apprendimento. Sebbene il suo impiego ottimale sia in simbiosi con il Deeds, esso può essere usato con profitto anche indipendentemente dal simulatore. Il libro racchiude la pluri-decennale esperienza degli autori nell'insegnamento e nello sviluppo di materiale didattico nell'ambito del progetto di sistemi digitali.

SISTEMI DI CONTROLLO DIGITALE

JET GROUTING

TECHNOLOGY, DESIGN AND CONTROL

CRC Press Unlike similar titles providing general information on ground improvement, Jet Grouting: Technology, Design and Control is entirely devoted to the role of jet grouting – its methods and equipment, as well as its applications. It discusses the possible effects of jet grouting on different soils and examines common drawbacks, failures and disadvantages, recent advances, critical reviews, and the range of applications, illustrated with relevant case studies. The book addresses several topics involving this popular worldwide practice including technology issues, the interpretation of the mechanisms taking place during the grouting, the quantitative prediction of their effects, the design of jet-grouted structures, and procedures for controlling jet grouting results. Discusses the design criteria for jet grouting projects and reviews existing design rules and codes of practice of different countries Provides practical methods for design calculations of the most important jet-grouted structures such as foundations, earth retaining walls, water cut-offs, bottom plugs, and provisional tunnel supports Includes the current standard control methods and most innovative techniques reported for the implementation of quality control and quality assurance procedures Jet Grouting: Technology, Design and Control analyzes the typical jet-grouted structures, such as foundations, earth retaining walls, water cut-offs, bottom plugs and tunnel supports, and serves as a practical manual for the correct use of jet grouting technology.

Q

Random House "Set in Reformation Europe, Q begins with Luther's nailing of his 95 theses on the door of the cathedral church in Wittenberg. Q traces the adventures and conflicts of two central characters: an Anabaptist, a member of the most radical of the Protestant sects and the anarchists of the Reformation, and a Catholic spy and informer, on their thrilling journey across Germany, Italy and the Netherlands."--

CURRENT TRENDS IN WEB ENGINEERING

WORKSHOPS, DOCTORAL SYMPOSIUM, AND TUTORIALS, HELD AT ICWE 2011, PAPHOS, CYPRUS, JUNE 20-21, 2011. REVISED SELECTED PAPERS

Springer Science & Business Media This book constitutes the thoroughly refereed post-conference proceedings of the workshops held at the 11th International Conference on Web Engineering, ICWE 2011, in Paphos, Cyprus, in June 2011. The 42 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in sections on the Third International Workshop on Lightweight Composition on the Web (ComposableWeb 2011); First International Workshop on Search, Exploration and Navigation of Web Data Sources (ExploreWeb 2011);

Second International Workshop on Enterprise Crowdsourcing (EC 2011); Seventh Model-Driven Web Engineering Workshop (MDWE 2011); Second International Workshop on Quality in Web Engineering (QWE 2011); Second Workshop on the Web and Requirements Engineering (WeRE 2011); as well as the Doctoral Symposium 2011, and the ICWE 2011 Tutorials.

DICTIONARY OF COMPUTER SCIENCE, ENGINEERING AND TECHNOLOGY

CRC Press A complete lexicon of technical information, the Dictionary of Computer Science, Engineering, and Technology provides workable definitions, practical information, and enhances general computer science and engineering literacy. It spans various disciplines and industry sectors such as: telecommunications, information theory, and software and hardware systems. If you work with, or write about computers, this dictionary is the single most important resource you can put on your shelf. The dictionary addresses all aspects of computing and computer technology from multiple perspectives, including the academic, applied, and professional vantage points. Including more than 8,000 terms, it covers all major topics from artificial intelligence to programming languages, from software engineering to operating systems, and from database management to privacy issues. The definitions provided are detailed rather than concise. Written by an international team of over 80 contributors, this is the most comprehensive and easy-to-read reference of its kind. If you need to know the definition of anything related to computers you will find it in the Dictionary of Computer Science, Engineering, and Technology.

INTRODUCTION TO THERMAL SYSTEMS ENGINEERING

THERMODYNAMICS, FLUID MECHANICS, AND HEAT TRANSFER

John Wiley & Sons This survey of thermal systems engineering combines coverage of thermodynamics, fluid flow, and heat transfer in one volume. Developed by leading educators in the field, this book sets the standard for those interested in the thermal-fluids market. Drawing on the best of what works from market leading texts in thermodynamics (Moran), fluids (Munson) and heat transfer (Incropera), this book introduces thermal engineering using a systems focus, introduces structured problem-solving techniques, and provides applications of interest to all engineers.

LA GESTIONE DELLA COMMESSA

GUIDA PRATICA PER IL PROJECT MANAGER A UNA REDDITIZIA PIANIFICAZIONE DEL PROGETTO. ESEMPI APPLICATIVI

EPC srl Un'azienda che lavora per "progetti" e che guarda al suo futuro in termini di sviluppo consapevole non può non introdurre nella sua governance un sistema di project management. Il project management comprende diverse discipline fra cui: - il risk analysis; - il cost engineering; - il planning e scheduling engineering; - il quality surveying. Questo sistema interdisciplinare si deve avvalere di supporti informatici che sarà indispensabile conoscere se si vuole tenere la situazione del progetto costantemente sotto controllo nei tempi e nei costi d'esecuzione. Il libro si rivolge all'impresa medio-piccola di qualunque settore, che lavora "a progetto", ai responsabili di commessa, agli studenti di ingegneria, di architettura, ai geometri e ai periti industriali che vogliono specializzarsi in project management. Corredato da nozioni di base, il testo presenta diverse applicazioni pratiche riferite a comuni case studies eseguite usando software di supporto facilmente reperibili che consentono al project manager la programmazione dei lavori e il controllo dei costi di progetto secondo standard e protocolli riconosciuti dalle società di certificazione italiane ed estere.

SPURIOUS CORRELATIONS

Hachette UK "Spurious Correlations ... is the most fun you'll ever have with graphs." -- Bustle Military intelligence analyst and Harvard Law student Tyler Vigen illustrates the golden rule that "correlation does not equal causation" through hilarious graphs inspired by his viral website. Is there a correlation between Nic Cage films and swimming pool accidents? What about beef consumption and people getting struck by lightning? Absolutely not. But that hasn't stopped millions of people from going to tylervigen.com and asking, "Wait, what?" Vigen has designed software that scours enormous data sets to find unlikely statistical correlations. He began pulling the funniest ones for his website and has since gained millions of views, hundreds of thousands of likes, and tons of media coverage. Subversive and clever, Spurious Correlations is geek humor at its finest, nailing our obsession with data and conspiracy theory.

TWELVE PATIENTS

LIFE AND DEATH AT BELLEVUE HOSPITAL (THE INSPIRATION FOR THE NBC

Hachette UK In the spirit of Oliver Sacks and the inspiration for the NBC drama New Amsterdam, this intensely involving memoir from a Medical Director of Bellevue Hospital looks poignantly at patients' lives and highlights the complex mind-body connection. Using the plights of twelve very different patients--from dignitaries at the nearby UN, to supermax prisoners at Riker's Island, to illegal immigrants, and Wall Street tycoons--Dr. Eric Manheimer "offers far more than remarkable medical dramas: he blends each patient's personal experiences with their social implications" (Publishers Weekly). Manheimer is not only the medical director of the country's oldest public hospital, but he is also a patient. As the book unfolds, the narrator is diagnosed with cancer, and he is forced to wrestle with the end of his own life even as he struggles to save the lives of others.

LIQUEFAZIONE DEI TERRENI

METODI, CRITERI E PROCEDURE APPLICABILI ALLA MICROZONAZIONE SISMICA. IL CD-ROM ALLEGATO CONTIENE UN PROGRAMMA IN EXCEL PER IL CALCOLO DEL COEFFICIENTE DI SICUREZZA DA PROVE PENETROMETRICHE DINAMICHE SPT, DA PROVE PENETROMETRICHE STATICHE CPT, DA PROVE DILATOMETRICHE DMT/SDMT E DA PROVE SISMICHE CON MISURA DIRETTA DALLA VELOCITÀ DELLE ONDE DI TAGLIO VS

EPC srl Un volume con foglio di calcolo Excel allegato pensato per geologi, ingegneri, architetti che nel corso della loro attività devono fare i conti con i metodi e i calcoli che regolano la liquefazione dei terreni sabbiosi saturi in particolari condizioni sismiche. Il testo raccoglie ed evidenzia i criteri e le metodologie di calcolo analizzando e tenendo conto di tutte quelle situazioni geologiche, geomorfologiche e idrogeologiche che riconducono a studi sulle strutture tettoniche, instabilità dei pendii, fenomeni di liquefazione, ecc. Analisi che, attraverso una programmazione territoriale applicata ad uno studio di microzonazione sismica, aiuta i progettisti, nella programmazione dei Piani Urbanistici, ad escludere o meno aree di territorio a destinazioni urbanistiche di tipo residenziale, industriale, ecc., facendo sì che la definizione di pericolosità sismica dell'area sia congrua con quanto previsto nel D.M. del 14 Gennaio 2008 "Norme Tecniche per le Costruzioni". Il volume rappresenta una guida metodologica per lo svolgimento di studi di microzonazione sismica, mediante alcune procedure standardizzate per la zonazione relativa sia alla definizione del moto sismico atteso, sia alla liquefazione, identificando le aree in cui possono manifestarsi o meno fenomeni di instabilità del terreno in funzione dei livelli di approfondimento (I, II e III), proposti negli "Indirizzi e Criteri per la Microzonazione Sismica - Gruppo di lavoro MS 2008", solo ai fini esclusivi della valutazione della stima del rischio di liquefazione. L'argomento è suddiviso in più parti: nella prima, in maniera molto schematica, dopo un excursus normativo, si introduce il concetto di liquefazione, si definiscono le equazioni CRR e CSR che con il loro rapporto determinano il coefficiente di sicurezza Fs, si danno ragguagli circa le correzioni che occorre eseguire ai vari indici (SPT, CPT, DMT, SDMT e VS), ricavati da prove in sito, per la successiva determinazione della suscettibilità o meno alla liquefazione. Si descriverà l'utilizzo dei metodi di verifica da applicare in funzione dei livelli di approfondimento richiesti. Nella seconda parte vengono definiti i vari metodi tabellari fornendo metodi esempi applicativi. Infine, si daranno ragguagli in merito a diverse tipologie di interventi utili a ridurre il rischio di liquefazione. Gli acquirenti del volume possono richiedere a tecnico@epclibri.it la nuova edizione del software Liquefazione dei terreni aggiornata agli atti di indirizzo della Regione Emilia Romagna (Determinazione n. 1105 del 03/02/2014).

THE SUPERALLOYS

FUNDAMENTALS AND APPLICATIONS

Cambridge University Press Superalloys are unique high-temperature materials used in gas turbine engines, which display excellent resistance to mechanical and chemical degradation. This book presents the underlying metallurgical principles which have guided their development and practical aspects of component design and fabrication from an engineering standpoint. The topics of alloy design, process development, component engineering, lifetime estimation and materials behaviour are described, with emphasis on critical components such as turbine blading and discs. The first introductory text on this class of materials, it will provide a strong grounding for those studying physical metallurgy at the advanced level, as well as practising engineers. Included at the end of each chapter are exercises designed to test the reader's understanding of the underlying principles presented. Solutions for instructors and additional resources are available at www.cambridge.org/9780521859042.