

Software Engineering Kk Aggarwal

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Handbook of Computer Networks and Cyber Security - Brij B. Gupta 2019-12-31

This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models,

and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented.

Exponential increase in the use of computers as a means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

Machine Learning for Predictive Analysis -
Amit Joshi 2020-10-22

This book gathers papers addressing state-of-the-art research in the areas of machine learning and predictive analysis, presented virtually at the Fourth International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2020), India. It covers topics such as intelligent agent and multi-agent systems in various domains, machine learning, intelligent information retrieval and business intelligence, intelligent information system development using design science principles, intelligent web mining and knowledge discovery systems.

OBJECT-ORIENTED SOFTWARE ENGINEERING
- YOGESH SINGH 2012-03-05

This comprehensive and well-written book presents the fundamentals of object-oriented software engineering and discusses the recent technological developments in the field. It focuses on object-oriented software engineering in the context of an overall effort to present object-oriented concepts, techniques and models

that can be applied in software estimation, analysis, design, testing and quality improvement. It applies unified modelling language notations to a series of examples with a real-life case study. The example-oriented approach followed in this book will help the readers in understanding and applying the concepts of object-oriented software engineering quickly and easily in various application domains. This book is designed for the undergraduate and postgraduate students of computer science and engineering, computer applications, and information technology. KEY FEATURES : Provides the foundation and important concepts of object-oriented paradigm. Presents traditional and object-oriented software development life cycle models with a special focus on Rational Unified Process model. Addresses important issues of improving software quality and measuring various object-oriented constructs using object-oriented metrics. Presents numerous diagrams to

illustrate object-oriented software engineering models and concepts. Includes a large number of solved examples, chapter-end review questions and multiple choice questions along with their answers.

Paediatric Dentistry - Richard Welbury
2012-08-16

"Paediatric Dentistry combines both the theoretical and practical aspects of paediatric dentistry for the child up to age 16, from all dental specialities."--Publisher.

Artificial Intelligence Methods For Software Engineering - Meir Kalech 2021-06-15

Software is an integral part of our lives today. Modern software systems are highly complex and often pose new challenges in different aspects of Software Engineering (SE). Artificial Intelligence (AI) is a growing field in computer science that has been proven effective in applying and developing AI techniques to address various SE challenges. This unique compendium covers applications of state-of-the-

art AI techniques to the key areas of SE (design, development, debugging, testing, etc).All the materials presented are up-to-date. This reference text will benefit researchers, academics, professionals, and postgraduate students in AI, machine learning and software engineering.Related Link(s)

Food Hygiene Microbiology and HACCP - P.R. Hayes 1999-12-31

The first and second editions of Food Microbiology and Hygiene are established reference texts for the food industry, giving practical information on food microbiology, hygiene, quality assurance and factory design. The third edition has been revised and updated to include the latest developments concerning HACCP, food legislation and modern methods of microbial examination. The book is an essential text for microbiologists working in the food industry, quality assurance personnel and academic researchers.

Outlier Analysis - Charu C. Aggarwal

2016-12-10

This book provides comprehensive coverage of the field of outlier analysis from a computer science point of view. It integrates methods from data mining, machine learning, and statistics within the computational framework and therefore appeals to multiple communities. The chapters of this book can be organized into three categories: Basic algorithms: Chapters 1 through 7 discuss the fundamental algorithms for outlier analysis, including probabilistic and statistical methods, linear methods, proximity-based methods, high-dimensional (subspace) methods, ensemble methods, and supervised methods. Domain-specific methods: Chapters 8 through 12 discuss outlier detection algorithms for various domains of data, such as text, categorical data, time-series data, discrete sequence data, spatial data, and network data. Applications: Chapter 13 is devoted to various applications of outlier analysis. Some guidance is also provided for the practitioner. The second edition of this book is

more detailed and is written to appeal to both researchers and practitioners. Significant new material has been added on topics such as kernel methods, one-class support-vector machines, matrix factorization, neural networks, outlier ensembles, time-series methods, and subspace methods. It is written as a textbook and can be used for classroom teaching.

Reliability Modeling, Analysis and Optimization -

Mathematics for Computer Science - Eric Lehman 2017-03-08

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further

selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

Innovative Techniques in Instruction Technology, E-learning, E-assessment and Education - Magued Iskander 2008-08-20

Innovative Techniques in Instruction Technology, E-Learning, E-Assessment and Education is a collection of world-class paper articles addressing the following topics: (1) E-Learning including development of courses and systems for technical and liberal studies programs; online laboratories; intelligent testing using fuzzy logic; evaluation of on line courses in comparison to traditional courses; mediation in virtual environments; and methods for speaker verification. (2) Instruction Technology including internet textbooks; pedagogy-oriented markup languages; graphic design possibilities; open source classroom management software; automatic email response systems; tablet-pcs;

personalization using web mining technology; intelligent digital chalkboards; virtual room concepts for cooperative scientific work; and network technologies, management, and architecture. (3) Science and Engineering Research Assessment Methods including assessment of K-12 and university level programs; adaptive assessments; auto assessments; assessment of virtual environments and e-learning. (4) Engineering and Technical Education including cap stone and case study course design; virtual laboratories; bioinformatics; robotics; metallurgy; building information modeling; statistical mechanics; thermodynamics; information technology; occupational stress and stress prevention; web enhanced courses; and promoting engineering careers. (5) Pedagogy including benchmarking; group-learning; active learning; teaching of multiple subjects together; ontology; and knowledge representation. (6) Issues in K-12 Education including 3D virtual learning

environment for children; e-learning tools for children; game playing and systems thinking; and tools to learn how to write foreign languages.

Reliability Engineering - K.K. Aggarwal
1993-10-31

Modern society depends heavily upon a host of systems of varying complexity to perform the services required. The importance of reliability assumes new dimensions, primarily because of the higher cost of these highly complex machines required by mankind and the implication of their failure. This is why all industrial organizations wish to equip their scientists, engineers, managers and administrators with a knowledge of reliability concepts and applications. Based on the author's 20 years experience as reliability educator, researcher and consultant, Reliability Engineering introduces the reader systematically to reliability evaluation, prediction, allocation and optimization. It also

covers further topics, such as maintainability and availability, software reliability, economics of reliability, reliability management, reliability testing, etc. A reliability study of some typical systems has been included to introduce the reader to the practical aspects. The book is intended for graduate students of engineering schools and also professional engineers, managers and reliability administrators as it has a wide coverage of reliability concepts.

Advances in Software Engineering - Dominik Ślęzak 2009-11-18

As future generation information technology (FGIT) becomes specialized and fragmented, it is easy to lose sight that many topics in FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that combine ideas taken from multiple disciplines in

order to achieve something more significant than the sum of the individual parts. Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout multifaceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), Disaster Recovery and Business Continuity (DRBC; published independently), Future Generation Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed

Computing (GDC), Multimedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition (SIP), and u- and e-Service, Science and Technology (UNESST).

Software Engineering And Knowledge Engineering: Trends For The Next Decade - Sergio Bandinelli 1995-06-09

This volume focuses on current and future trends in the interplay between software engineering and artificial intelligence. This interplay is now critical to the success of both disciplines, and it also affects a wide range of subject areas. The articles in this volume survey the significant work that has been accomplished, describe the state of the art, analyze the current trends, and predict which future directions have the most potential for success. Areas covered include requirements engineering, real-time systems, reuse technology, development environments and meta-environments, process

representations, safety-critical systems, and metrics and measures for processes and products.

Real-Time Systems Design and Analysis - Phillip A. Laplante 1997

Acknowledgments. Basic Real-Time Concepts. Computer Hardware. Languages Issues. The Software Life Cycle. Real-Time Specification and Design Techniques. Real-Time Kernels. Intertask Communication and Synchronization. Real-Time Memory Management. System Performance Analysis and Optimization. Queuing Models. Reliability, Testing, and Fault Tolerance. Multiprocessing Systems. Hardware/Software Integration. Real-Time Applications. Glossary. Bibliography. Index.

Fundamentals of Software Engineering - Rajib Mall 2004-08

Medicine: Prep Manual for Undergraduates E-book - Aggarwal Praveen 2019-07-15

With ever-expanding knowledge and advances in

medicine, the sixth edition of this book is significantly revised and presented in new full-colour format. Structured in question-answer format, this book is a must-have for all undergraduate medical students as it prepares them for both theory and viva-voce examinations. It is also useful for dentistry and nursing students. • Thorough revision of all the chapters without changing basic framework to keep up with the latest changes in the field of medicine. • Revision of topics especially respiratory system, immunological factors in disease, diseases of the cardiovascular system, diseases of the gastrointestinal system, acute poisoning and environmental emergencies, oncology, diseases of the kidneys and genitourinary system, diseases due to infections, endocrine and metabolic diseases. • Presentation of text pointwise with suitable boxes and tables, which helps the student in quick learning and revision. • Addition of newer innovations and treatments modalities. •

Inclusion of clinical decision pathways for some of the commonly encountered critical and non-emergent disease conditions • Expansion of normal values of investigations and understanding the evolution of disease. • Management of acute medical emergencies like acute myocardial infarction, acute pulmonary oedema, acute anaphylactic and hypovolumic shock, status asthmaticus, tension pneumothorax, status epilepticus, haemoptysis, gastrointestinal bleeding, diabetic coma, snake bites, common poisoning, etc. • Emphasis has been laid on clinical presentation with description of the drugs. New to this Edition • Addition of many new line diagrams, tables, flowcharts to facilitate greater retention of knowledge. • Updates on Zika, Ebola, Nipah, sepsis, monoclonal antibodies, adult immunisation, paracetamol poisoning, acute radiation syndrome, myelodysplastic syndrome, lymphoid malignancies, influenza, tuberculosis, human immunodeficiency virus infection,

hepatitis B and C, heart failure, rheumatic fever, pulmonary hypertension and hyperlipidaemia. Additional Feature • Complimentary access to full e-book

Computational Science and Its Applications - ICCSA 2009 - Osvaldo Gervasi 2009-07-09

The two-volume set LNCS 5592 and 5593 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications, ICCSA 2009, held in Seoul, Korea, in June/July, 2009. The two volumes contain papers presenting a wealth of original research results in the field of computational science, from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques. The topics of the fully refereed papers are structured according to the five major conference themes: computational methods, algorithms and scientific applications, high performance technical computing and networks, advanced

and emerging applications, as well as information systems and information technologies. Moreover, submissions from more than 20 workshops and technical sessions contribute to this publication. These cover topics such as geographical analysis, urban modeling, spatial statistics, wireless and ad hoc networking, logical, scientific and computational aspects of pulse phenomena in transitions, high-performance computing and information visualization, sensor network and its applications, molecular simulations structures and processes, collective evolutionary systems, software engineering processes and applications, molecular simulations structures and processes, internet communication security, security and privacy in pervasive computing environments, and mobile communications. *CK Metrics as a Software Fault-Proneness Predictor* - Sunil Sikka 2018-06-18 Predicting Fault-proneness of software modules is essential for cost-effective test planning.

Fault-proneness could play a key role in quality control of software. Various studies have shown the importance of software metrics in predicting fault-proneness of the software. "Classic" set of metrics was planned by Chidamber and Kemerer in 1991. Chidamber and Kemerer (CK) metrics suite is the most widely used metrics suite for the purpose of object-oriented software fault-proneness prediction. CK metrics are used for numerous function of study, e.g. defect prediction. CK metrics are the good predictor of fault-proneness of classes. C5.0 algorithm is one of the classification techniques of data mining. It is necessarily selected to partition data set into several smaller subsets in every recursion of creating decision tree. Object-oriented metrics play a very important role to quantify the effect of key factors to determine the fault-proneness. For fault-prediction model CK Metrics: Weighted Methods for Class (WMC), Depth of Inheritance Tree (DIT), Number of Children (NOC), Lack of Cohesion of Methods (LCOM), Response for

Class (RFC), and Coupling Between Objects (CBO), are used as a independent variables. *Evolving Software Processes* - Arif Ali Khan 2022-02-23

EVOLVING SOFTWARE PROCESSES The book provides basic building blocks of evolution in software processes, such as DevOps, scaling agile process in GSD, in order to lay a solid foundation for successful and sustainable future processes. One might argue that there are already many books that include descriptions of software processes. The answer is "yes, but." Becoming acquainted with existing software processes is not enough. It is tremendously important to understand the evolution and advancement in software processes so that developers appropriately address the problems, applications, and environments to which they are applied. Providing basic knowledge for these important tasks is the main goal of this book. Industry is in search of software process management capabilities. The emergence of the

COVID-19 pandemic emphasizes the industry's need for software-specific process management capabilities. Most of today's products and services are based to a significant degree on software and are the results of largescale development programs. The success of such programs heavily depends on process management capabilities, because they typically require the coordination of hundreds or thousands of developers across different disciplines. Additionally, software and system development are usually distributed across geographical, cultural and temporal boundaries, which make the process management activities more challenging in the current pandemic situation. This book presents an extremely comprehensive overview of the evolution in software processes and provides a platform for practitioners, researchers and students to discuss the studies used for managing aspects of the software process, including managerial, organizational, economic and technical. It

provides an opportunity to present empirical evidence, as well as proposes new techniques, tools, frameworks and approaches to maximize the significance of software process management. Audience The book will be used by practitioners, researchers, software engineers, and those in software process management, DevOps, agile and global software development.

Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2017-12-01 Professionals in the interdisciplinary field of computer science focus on the design, operation, and maintenance of computational systems and software. Methodologies and tools of engineering are utilized alongside computer applications to develop efficient and precise information databases. Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material

on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as utility computing, computer security, and information systems applications, this multi-volume book is ideally designed for academicians, researchers, students, web designers, software developers, and practitioners interested in computer systems and software engineering.

Transactions on Engineering Technologies - Haeng Kon Kim 2014-07-02

This volume contains fifty-six revised and extended research articles, written by prominent researchers participating in the congress. Topics covered include electrical engineering, chemical engineering, circuits, computer science, communications systems, engineering mathematics, systems engineering, manufacture engineering and industrial applications. This book offers theoretical advances in engineering

technologies and presents state of the art applications. It also serves as an excellent source of reference for researchers and graduate students working with/on engineering technologies.

Design of Multithreaded Software - Bo I. Sanden 2011-04-06

This book assumes familiarity with threads (in a language such as Ada, C#, or Java) and introduces the entity-life modeling (ELM) design approach for certain kinds of multithreaded software. ELM focuses on "reactive systems," which continuously interact with the problem environment. These "reactive systems" include embedded systems, as well as such interactive systems as cruise controllers and automated teller machines. Part I covers two fundamentals: program-language thread support and state diagramming. These are necessary for understanding ELM and are provided primarily for reference. Part II covers ELM from different angles. Part III positions ELM relative to other

design approaches.

Software Engineering - K. K. Aggarwal

2008-01-01

Essentials of Software Engineering - Frank Tsui

2011

Computer Architecture/Software Engineering

Analytical Biochemistry - David James Holme

1993

Aimed primarily at undergraduate students, this text examines the analytical aspects of biochemistry and aims to provide sufficient information to enable the student to select the techniques appropriate for a particular analytical problem and develop a valid and reliable analytical method.

Formalism and Marxism - Tony Bennett

2004-03-01

Russian Formalism and Marxist criticism had a seismic impact on twentieth-century literary theory and the shockwaves are still felt today. First published in 1979, Tony Bennett's

Formalism and Marxism created its own reverberations by offering a ground-breaking new interpretation of the Formalists' achievements and demanding a new way forward in Marxist criticism. The author first introduces and reviews the work of the Russian Formalists, a group of theorists who made an extraordinarily vital contribution to literary criticism in the decade following the October Revolution of 1917. Placing the work of key figures in context and addressing such issues as aesthetics, linguistics and the category of literature, literary form and function and literary evolution, Bennett argues that the Formalists' concerns provided the basis for a radically historical approach to the study of literature. Bennett then turns to the situation of Marxist criticism and sketches the risks it has run in becoming overly entangled with the concerns of traditional aesthetics. He forcefully argues that through a serious and sympathetic reassessment of the Formalists and their historical approach,

Marxist critics might find their way back on to the terrain of politics, where they and their work belong. Addressing such crucial questions as 'What is literature?' or 'How should it be studied and to what end?', Formalism and Marxism explores ideas which should be considered by any student or reader of literature and provides a particular challenge to those interested in Marxist criticism. Now with a new afterword, this classic text still offers the best available starting point for those new to the field, as well as representing a crucial intervention in twentieth-century literary theory.

Gene and Cell Therapy - Nancy Smyth
Templeton 2003-12-17

This reference is completely revised and expanded to reflect the most critical studies, controversies, and technologies impacting the medical field, including probing research on lentivirus, gutless adenovirus, bacterial and baculovirus vectors, retargeted viral vectors, in vivo electroporation, in vitro and in vivo gene

detection systems, and all inducible gene expression systems. Scrutinizing every tool, technology, and issue impacting the future of gene and cell research, it is specifically written and organized for laymen, scholars, and specialists from varying backgrounds and disciplines to understand the current status of gene and cell therapy and anticipate future developments in the field.

Information Systems, Technology and Management - Sushil K. Prasad 2009-03-08

This book constitutes the refereed proceedings of the Third International Conference on Information Systems, Technology and Management, ICISTM 2009, held in Ghaziabad, India, in March 2009. The 30 revised full papers presented together with 4 keynote papers were carefully reviewed and selected from 79 submissions. The papers are organized in topical sections on storage and retrieval systems; data mining and classification; managing digital goods and services; scheduling and distributed

systems; advances in software engineering; case studies in information management; algorithms and workflows; authentication and detection systems; recommendation and negotiation; secure and multimedia systems; as well as 14 extended poster abstracts.

Software Engineering - Nasib Singh Gill

Each and every chapter covers the contents up to a reasonable depth necessary for the intended readers in the field. The book consists in all about 1200 exercises based on the topics and sub-topics covered. Keeping in view the emerging trends in newly emerging scenario with new dimension of software engineering, the book specially includes the following chapters, but not limited to these only. This book explains all the notions related to software engineering in a very systematic way, which is of utmost importance to the novice readers in the field of software Engineering.

Advances in Intelligent Informatics - El-Sayed M. El-Alfy 2014-09-08

This book contains a selection of refereed and revised papers of Intelligent Informatics Track originally presented at the third International Symposium on Intelligent Informatics (ISI-2014), September 24-27, 2014, Delhi, India. The papers selected for this Track cover several intelligent informatics and related topics including signal processing, pattern recognition, image processing data mining and their applications.

Reliability in Computer System Design -

Balbir S. Dhillon 1987

This volume covers wide areas of interest such as life cycle costing, microcomputers, common-cause failures and space computers. Every effort is made to present difficult material with the aid of an example along with its solution. The material covered is summarized at the end of each chapter. The information is written in a format that allows readers to learn and better understand the philosophy of reliability in computer system design. At the same time, it tests their comprehension through listed

exercises.

**PANKAJ JALOTE'S SOFTWARE
ENGINEERING: A PRECISE APPROACH -**
Pankaj Jalote 2010

The goal of this book is to introduce to the students a limited number of concepts and practices which will achieve the following two objectives: Teach the student the skills needed to execute a smallish commercial project. Provide the students necessary conceptual background for undertaking advanced studies in software engineering, through organized courses or on their own. This book focuses on key tasks in two dimensions - engineering and project management - and discusses concepts and techniques that can be applied to effectively execute these tasks. The book is organized in a simple manner, with one chapter for each of the key tasks in a project. For engineering, these tasks are requirements analysis and specification, architecture design, module level design, coding and unit testing, and testing. For

project management, the key tasks are project planning and project monitoring and control, but both are discussed together in one chapter on project planning as even monitoring has to be planned. In addition, one chapter clearly defines the problem domain of Software Engineering, and another Chapter discusses the central concept of software process which integrates the different tasks executed in a project. Each chapter opens with some introduction and clearly lists the chapter goals, or what the reader can expect to learn from the chapter. For the task covered in the chapter, the important concepts are first discussed, followed by a discussion of the output of the task, the desired quality properties of the output, and some practical methods and notations for performing the task. The explanations are supported by examples, and the key learnings are summarized in the end for the reader. The chapter ends with some self-assessment exercises. Finally, the book contains a question bank at the end which

lists out questions with answers from major universities.

Software Engineering - M. N. Hoda 2018-06-12

This book presents selected proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. They cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This book focuses on Software Engineering, and informs readers about the state of the art in software engineering by gathering high-quality papers that represent the outcomes of consolidated research and innovations in Software Engineering and related areas. In addition to helping practitioners and researchers understand the chief issues involved in designing, developing, evolving and validating complex software systems, it provides comprehensive information on developing

professional careers in Software Engineering. It also provides insights into various research issues such as software reliability, verification and validation, security and extensibility, as well as the latest concepts like component-based development, software process models, process-driven systems and human-computer collaborative systems.

Proceedings Second International Conference on Information Processing - L. M. Patnaik 2013-12-30

The proceedings features several key-note addresses in the areas of advanced information processing tools. This area has been recognized to be one of the key five technologies poised to shape the modern society in the next decade. It aptly focuses on the tools and techniques for the development of Information Systems. Emphasis is on pattern recognition and image processing, software engineering, mobile ad hoc networks, security aspects in computer networks, signal processing and hardware synthesis, optimization

techniques, data mining and information processing.

Neural Information Processing - Irwin King
2006-09-26

The three volume set LNCS 4232, LNCS 4233, and LNCS 4234 constitutes the refereed proceedings of the 13th International Conference on Neural Information Processing, ICONIP 2006, held in Hong Kong, China in October 2006. The 386 revised full papers presented were carefully reviewed and selected from 1175 submissions.

Quality Management: A New Era - Jimmy Chan
2005-05-06

This volume covers the most current theories and practices in Quality Management and Six Sigma. Successful application of Quality Management and Six Sigma has been reported in a number of scenarios including computer software, manufacturing, supply chain management, customer relationship management, and so on. The refereed papers

which comprise the book are selected from the First International Conference on Quality Management and Six Sigma. In some cases, authors of short papers were invited to elaborate on their ideas into detailed descriptions of practices. The contributors are academic researchers as well as industrial practitioners in the field. The book will be an important resource for students, researchers, and professionals involved in quality management. Contents: Six Sigma Overview Strategies and Models SMEs Supply Chain Software Quality Performance Evaluation and Maintenance Readership: Graduate students, researchers, and industrialists in quality management. Keywords: Quality Management; Six Sigma; Industrial Management; Quality Function Deployment; Good Manufacturing Practices; Quality Control Circles; Quality Models; Contemporary Quality Practices; Asian Management Key Features: Covers the application of statistical

tools in six sigma practices Reveals the application of project management tools in quality management and six sigma practices Elucidates contemporary ideas in the field

Reliability Engineering - K.K. Aggarwal
2012-12-06

Modern society depends heavily upon a host of systems of varying complexity to perform the services required. The importance of reliability assumes new dimensions, primarily because of the higher cost of these highly complex machines required by mankind and the implication of their failure. This is why all industrial organizations wish to equip their scientists, engineers, managers and administrators with a knowledge of reliability concepts and applications. Based on the author's 20 years experience as reliability educator, researcher and consultant, *Reliability Engineering* introduces the reader systematically to reliability evaluation,

prediction, allocation and optimization. It also covers further topics, such as maintainability and availability, software reliability, economics of reliability, reliability management, reliability testing, etc. A reliability study of some typical systems has been included to introduce the reader to the practical aspects. The book is intended for graduate students of engineering schools and also professional engineers, managers and reliability administrators as it has a wide coverage of reliability concepts.

Object-oriented Metrics - Brian Henderson-Sellers 1996

Object-oriented (OO) metrics are an integral part of object technology -- at the research level and in commercial software development projects. This book offers theoretical and empirical tips and facts for creating an OO complexity metrics (measurement) program, based on a review of existing research from the last several years. KEY TOPICS: Covers moving through object-oriented concepts as they related

to managing the project lifecycle; the framework in which metrics exist; structural complexity metrics for traditional systems; OO product metrics; and current industrial applications.

MARKET: For software developers, programmers, and managers.

Software Engineering - K.K. Aggarwal 2005

This Book Is Designed As A Textbook For The First Course In Software Engineering For Undergraduate And Postgraduate Students. This May Also Be Helpful For Software Professionals To Help Them Practice The Software Engineering Concepts. The Second Edition Is An Attempt To Bridge The Gap Between What Is Taught In The Classroom And What Is Practiced In The Industry . The Concepts Are Discussed With The Help Of Real Life Examples And Numerical Problems. This Book Explains The Basic Principles Of Software Engineering In A Clear And Systematic Manner. A Contemporary Approach Is Adopted Throughout The Book. After Introducing The Fundamental Concepts,

The Book Presents A Detailed Discussion Of Software Requirements Analysis & Specifications. Various Norms And Models Of Software Project Planning Are Discussed Next, Followed By A Comprehensive Account Of Software Metrics. Suitable Examples, Illustrations, Exercises, Multiple Choice Questions And Answers Are Included Throughout The Book To Facilitate An Easier Understanding Of The Subject.

Empirical Research in Software Engineering

- Ruchika Malhotra 2016-03-09

Empirical research has now become an essential component of software engineering yet software practitioners and researchers often lack an understanding of how the empirical procedures and practices are applied in the field. *Empirical Research in Software Engineering: Concepts, Analysis, and Applications* shows how to implement empirical research processes, procedures, and practices in software engineering. Written by a leading researcher in

empirical software engineering, the book describes the necessary steps to perform replicated and empirical research. It explains how to plan and design experiments, conduct systematic reviews and case studies, and analyze the results produced by the empirical studies. The book balances empirical research concepts with exercises, examples, and real-life case studies, making it suitable for a course on empirical software engineering. The author

discusses the process of developing predictive models, such as defect prediction and change prediction, on data collected from source code repositories. She also covers the application of machine learning techniques in empirical software engineering, includes guidelines for publishing and reporting results, and presents popular software tools for carrying out empirical studies.