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Advanced Concepts in Operating Systems - Mukesh Singhal 2011

Wireless Sensor Networks - Kazem Sohraby 2007-04-06
Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks * Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.
Distributed Systems - Maarten van Steen 2017-02
For this third edition of -Distributed Systems, - the material has been thoroughly revised and extended, integrating principles and paradigms into nine chapters: 1. Introduction 2. Architectures 3. Processes 4. Communication 5. Naming 6. Coordination 7. Replication 8. Fault tolerance 9. Security A separation has been made between basic material and more specific subjects. The latter have been organized into boxed sections, which may be skipped on first reading. To assist in understanding the more algorithmic parts, example programs in Python have been included. The examples in the book leave out many details for readability, but the complete code is available through the book's Website, hosted at www.distributed-systems.net. A personalized digital copy of the book is available for free, as well as a printed version through Amazon.com.
Real-Time Concepts for Embedded Systems - Qing Li 2003-01-04
'... a very good balance between the theory and practice of real-time embedded system designs.' —Jun-ichiro itojun Hagino, Ph.D., Research Laboratory, Internet Initiative Japan Inc., IETF IPv6 Operations Working Group (v6ops) co-chair 'A cl

Computers and Their Applications - Narayan C. Debnath 1998

Industrial Pollution & Management - Arvind Kumar 2004
Conflicts 41 Research Papers Relating To Current Environmental Problems Caused By Industrial Pollution And Then Possible Remedies. Useful For Students/Teachers And Researchers In The Field Of Environmental Science.
Data and Computer Communications - Gurdeep S. Hura 2001-03-28
The protocols and standards for networking are numerous and complex. Multivendor internetworking, crucial to present day users, requires a grasp of these protocols and standards. Data and Computer Communications: Networking and Internetworking, a comprehensive text/reference, brings clarity to all of the complex issues involved in networking activity, providing excellent instruction for students and an indispensable reference for practitioners. This systematic work answers a vast array of questions about overall network architecture, design, protocols, and deployment issues. It offers a practical, thorough treatment of the applied concepts of data and computer communication systems, including signaling basics, transmission of digital signals, and layered architecture. The book features in-depth discussions of integrated digital networks, integrated services digital networks, and high-speed networks, including currently evolving technologies, such as ATM switching, and their applications in multimedia technology. It also presents the state-of-the-art in Internet technology, its services, and implementations. The balance of old and new networking technologies presents an appealing set of topics for both undergraduate students and computer and networking professionals. This book presents all seven layers of OSI-based networks in great detail, covering services, functions, design issues, interfacing, and protocols. With its introduction to the basic concepts and practical aspects of the field, Data and Computer Communications: Networking and Internetworking helps you keep up with the rapidly growing and dominating computer networking technology.
Fundamentals of Communication Systems - John G. Proakis 2014
For one- or two-semester, senior-level undergraduate courses in Communication Systems for Electrical and Computer Engineering majors. This text introduces the basic techniques used in modern communication systems and provides fundamental tools and methodologies used in the analysis and design of these systems. The authors emphasize digital communication systems, including new generations of wireless communication systems, satellite communications, and data transmission networks. A background in calculus, linear algebra, basic electronic circuits, linear system theory, and probability and random variables is assumed.
DISTRIBUTED OPERATING SYSTEMS - PRADEEP K. SINHA 1998-01-01
The highly praised book in communications networking from IEEE Press, now available in the Eastern Economy Edition.This is a non-mathematical introduction to Distributed Operating Systems explaining the fundamental concepts and design principles of this emerging technology. As a textbook for students and as a self-study text for systems managers and software engineers, this book provides a concise and an informal

introduction to the subject.
Strata Mechanics - I.W. Farmer 2013-10-22
The papers in this volume provide a unified approach to the design of underground structures in stratified coal and mineral deposits. They include examples of underground structure design in coal and evaporite mines, and case histories of performance of underground structures.
Teachings of Mahatma Gandhi - Jag Chander 2018-03-22
Teachings Of Mahatma Gandhi By Jag Parvesh Chander
Operating Systems - Charles Patrick Crowley 1996
Publisher Description
Distributed Systems - Andrew S. Tanenbaum 2016-02-26
This second edition of Distributed Systems, Principles & Paradigms, covers the principles, advanced concepts, and technologies of distributed systems in detail, including: communication, replication, fault tolerance, and security. Intended for use in a senior/graduate level distributed systems course or by professionals, this text systematically shows how distributed systems are designed and implemented in real systems.
Real-Time Systems - Liu 2000-09

1997 International Conference on Parallel and Distributed Systems - International Conference on Parallel and Distributed Systems 1997
Aimed at researchers, professors, practitioners, students and other computing professionals, this work looks at: architectures; parallel and distributed computation; networks; mobile computing and communication; parallel language and compiler; and cache/memory.
ISO 9001:2015 ENABLER FAQs - Rakesh L. SHRIVASTAVA 2018-03-27
ISO 9001:2015 is adopted by large number of companies world over. While implementing the standard many questions arise in the mind of persons involved in its interpretation and application. Even the consultant and auditors have to deliberate and discuss the various issues related to ISO 9001:2015. This book, planned and presented in question answer form, provides answers to frequently asked questions. The book starts with background of ISO and then organized as per the key requirements of ISO 9001:2015 such as risk based thinking, customer focus,external providers, leadership, design and development, quality assurance & performance evaluation and improvement. The book provides the understanding of practical application of ISO 9001:2015. The authors have shared their experience of more than 20 years in training, consultancy and auditing, while writing the questions as well as their answers. In many interviews the questions are asked on ISO 9001:2015 and therefore, this book will be suitable for those who prepare and appear for the interview. the book will be quick reference guide for professionals, consultants , auditors and those interested in learning and implementing ISO 9001:2015 quality management system.
Neuropsychotherapy - Klaus Grawe 2017-09-25
Neuropsychotherapy is intended to inspire further development and continual empirical updating of consistency theory. It is essential for psychotherapists, psychotherapy researchers, clinical psychologists, psychiatrists, neuroscientists, and mental-health professionals. Profoundly important and innovative, this volume provides necessary know-how for professionals as it connects the findings of modern neuroscience to the insights of psychotherapy. Throughout the book, a new picture unfolds of the empirical grounds of effective psychotherapeutic work. Author Klaus Grawe articulates a comprehensive model of psychological functioning-consistency theory-and bridges the gap between the neurosciences and the understanding of psychological disorders and their treatment. Neuropsychotherapy illustrates that psychotherapy can be even more effective when it is grounded in a neuroscientific approach. Cutting across disciplines that are characteristically disparate, the book identifies the neural foundations of various disorders, suggests specific psychotherapeutic conclusions, and makes neuroscientific knowledge more accessible to psychotherapists. The book's discussion of consistency theory reveals the model is firmly connected to other psychological theoretical approaches, from control theory to cognitive-behavioral models to basic need theories.
Scheduling and Load Balancing in Parallel and Distributed Systems - Behrooz A. Shirazi 1995-05-14
This book focuses on the future directions of the static scheduling and dynamic load balancing methods in parallel and distributed systems. It provides an overview and a detailed discussion of a wide range of topics from theoretical background to practical, state-of-the-art scheduling and load balancing techniques.
ISO 9001:2015 Qms Pictorial Book - Mukesh SINGHAL 2018-02-20
This book serves as ready rekconer for all those who want to refer the ISO 9001:2015 clause requirement. The requirements of ISO9001:2015 are explained through diagrams which are easy to understand and remember. The book is useful for all those professionals, consultants, auditors who would like to have a quick glance through ISO 9001:2015 QMS and its implementation. The book is also useful to all those who are new to ISO 9001:2015.
Distributed Computing - Ajay D. Kshemkalyani 2011-03-03
Designing distributed computing systems is a complex process requiring a solid understanding of the design problems and the theoretical and practical aspects of their solutions. This comprehensive textbook covers the fundamental principles and models underlying the theory, algorithms and systems aspects of distributed computing. Broad and detailed coverage of the theory is balanced with practical systems-related issues such as mutual exclusion, deadlock detection, authentication, and failure recovery. Algorithms are carefully selected, lucidly presented, and described without complex proofs. Simple explanations and illustrations are used to elucidate the algorithms. Important emerging topics such as peer-to-peer networks and network security are also considered. With vital algorithms, numerous illustrations, examples and homework problems, this textbook is suitable for advanced undergraduate and graduate students of electrical and computer engineering and computer science. Practitioners in data networking and sensor networks will also find this a valuable resource. Additional resources are available online at www.cambridge.org/9780521876346.
Applied Operating System Concepts - Abraham Silberschatz 2003-07
New edition of the bestseller provides readers with a clear description of the concepts that underlie operating systems Uses Java to illustrate many ideas and includes numerous examples that pertain specifically to popular operating systems such as UNIX, Solaris 2, Windows NT and XP, Mach, the Apple Macintosh OS, IBM’s OS/2 and Linux Style is even more hands–on than the previous edition, with extensive programming examples written in Java and C New coverage includes recent advances in Windows 2000/XP, Linux, Solaris 9, and Mac OS X Detailed case studies of Windows XP and Linux give readers full coverage of two very popular operating systems Also available from the same authors, the highly successful Operating System Concepts, Sixth Edition (0–471–25060–0)
Fundamentals in Information Theory and Coding - Monica Borda 2011-05-27
The work introduces the fundamentals concerning the measure of discrete information, the modeling of discrete sources without and with a memory, as well as of channels and coding. The understanding of the theoretical matter is supported by many examples. One particular emphasis is put on the explanation of Genomic Coding. Many examples throughout the book are chosen from this particular area and several parts of the book are devoted to this exciting implication of coding.
Advanced Concepts In Operating Systems - Singhal 2001-08

Distributed Systems - George F. Coulouris 2001
The chapters in this new edition have been revised and updated. New material includes coverage of large-scale applications, fault modelling and fault tolerance, models of system execution, object orientation and distributed multimedia systems.
Introduction to Cryptography and Network Security - Behrouz A. Forouzan 2008
In this new first edition, well-known author Behrouz Forouzan uses his accessible writing style and visual approach to simplify the difficult concepts of cryptography and network security. While many security books assume knowledge of number theory and advanced math, or present mainly theoretical ideas, Forouzan presents difficult security topics from the ground up. A gentle introduction to the fundamentals of number theory is provided in the opening chapters, paving the way for the student to move on to more complex security and cryptography topics. Difficult math concepts are organized in appendices at the end of each chapter so that students can first learn the principles, then apply the technical background.

Hundreds of examples, as well as fully coded programs, round out a practical, hands-on approach which encourages students to test the material they are learning.

Elements of Distributed Computing - Vijay K. Garg 2002-05-23

A lucid and up-to-date introduction to the fundamentals of distributed computing systems As distributed systems become increasingly available, the need for a fundamental discussion of the subject has grown. Designed for first-year graduate students and advanced undergraduates as well as practicing computer engineers seeking a solid grounding in the subject, this well-organized text covers the fundamental concepts in distributed computing systems such as time, state, simultaneity, order, knowledge, failure, and agreement in distributed systems. Departing from the focus on shared memory and synchronous systems commonly taken by other texts, this is the first useful reference based on an asynchronous model of distributed computing, the most widely used in academia and industry. The emphasis of the book is on developing general mechanisms that can be applied to a variety of problems. Its examples-clocks, locks, cameras, sensors, controllers, slicers, and synchronizers-have been carefully chosen so that they are fundamental and yet useful in practical contexts. The text's advantages include: Emphasizes general mechanisms that can be applied to a variety of problems Uses a simple induction-based technique to prove correctness of all algorithms Includes a variety of exercises at the end of each chapter Contains material that has been extensively class tested Gives instructor flexibility in choosing appropriate balance between practice and theory of distributed computing

High Performance Datacenter Networks - Dennis Abts 2011-02-02

Datacenter networks provide the communication substrate for large parallel computer systems that form the ecosystem for high performance computing (HPC) systems and modern Internet applications. The design of new datacenter networks is motivated by an array of applications ranging from communication intensive climatology, complex material simulations and molecular dynamics to such Internet applications as Web search, language translation, collaborative Internet applications, streaming video and voice-over-IP. For both Supercomputing and Cloud Computing the network enables distributed applications to communicate and interoperate in an orchestrated and efficient way. This book describes the design and engineering tradeoffs of datacenter networks. It describes interconnection networks from topology and network architecture to routing algorithms, and presents opportunities for taking advantage of the emerging technology trends that are influencing router microarchitecture. With the emergence of "many-core" processor chips, it is evident that we will also need "many-port" routing chips to provide a bandwidth-rich network to avoid the performance limiting effects of Amdahl's Law. We provide an overview of conventional topologies and their routing algorithms and show how technology, signaling rates and cost-effective optics are motivating new network topologies that scale up to millions of hosts. The book also provides detailed case studies of two high performance parallel computer systems and their networks. Table of Contents: Introduction / Background / Topology Basics / High-Radix Topologies / Routing / Scalable Switch Microarchitecture / System Packaging / Case Studies / Closing Remarks

Iso 17025 2017 Lab Quality Management System - Ramesh R Lakhe 2018-12-30

Laboratory accreditation has assumed immense importance in recent years because of the need to assure the customer that the laboratory is capable of providing the valid test results reliably. ISO 17025:2017 Lab Quality Management System has become part of the requirement of all the laboratories, small to large. Over the years, ISO 17025:2017 Lab Quality Management System has evolved, as per the laboratory and customer requirements, and has become very important for improving laboratory systems and processes in order to sustain competitive advantages. This book focuses on requirements and key features of ISO 17025:2017 Lab Quality Management System such as risk-based thinking, PDCA approach, process management, and continual improvement. The readers would find it easier to understand the standard requirements and implement these in their work place.

Advances in Networks and Communications - Natarajan Meghanathan 2010-12-14

This volume constitutes the second of three parts of the refereed proceedings of the First International Conference on Computer Science and Information Technology, CCSIT 2010, held in Bangalore, India, in January 2011. The 66 revised full papers presented in this volume were carefully reviewed and selected. The papers are organized in topical sections on networks and communications; network and communications security; wireless and mobile networks.

Sword Art Online 11 (light novel) - Reki Kawahara 2017-08-22

Two years into Kirito and Eugeo's quest to reach the Central Cathedral, the pair have finally become elite disciples at the North Centoria Imperial Swordcraft Academy. Now all that's left to do is train for the next tournament, build their relationships with their trainee pages, and do so without violating the Taboo Index. But just because this peaceful world is governed by law and order doesn't mean evil can't fester below the surface...and when it comes time to choose between the rules and what's right, Kirito and Eugeo discover the darker secrets of the Underworld.

Storage Networks - Robert Spalding 2003

Discusses storage networks, covering architecture, devices, connectivity options, data organization methods, and the two major models: Network Attached Storage and Storage Area Networking.

Commentary on the Holy Quran: Surah Fatiha - Hazrat Mirza Ghulam Ahmad 2004

Software Engineering - Ian Sommerville 2014

Moving To The Cloud - Dinkar Sitaram 2011-12

Chapter 1: Introduction -- Chapter 2: Infrastructure as a Service -- Chapter 3: Platform as a Service -- Chapter 4: Application as a Service -- Chapter 5: Paradigms for Developing Cloud Applications -- Chapter 6: Addressing the Cloud Challenges -- Chapter 7: Security -- Chapter 8: Managing the Cloud Infrastructure -- Chapter 9: Related Technologies -- Chapter 10: Future trends and Research Directions.

A History of Yoga - Vivian Worthington 1982

Conservation Plan of Hindon River In Between Ghaziabad and Delhi - Prabhakar Shukla 2014-06-17

Research paper from the year 2014 in the subject Environmental Sciences, , course: Env., language: English, abstract: River Hindon, an important tributary of river Yamuna flowing through the districts of Western Uttar Pradesh, is subjected to varying degree of pollution caused by numerous untreated and/or partially treated waste inputs of municipal and industrial effluents. In the present investigation, assessment of the water quality characteristics of different point sources contributing river Hindon has been carried out by collecting water and wastewater samples during pre- and post-monsoon seasons during the year 2013-14. The higher values of BOD and COD observed in the drains indicate high degree of organic pollution rendering the water unsuitable even for bathing purpose. At almost all sites of the upstream and mid-section of the river Hindon, DO was observed to be 0 mg/L because of high organic load in the river water. BOD and COD concentration in river Hindon varies from 110 to 212 mg/L and 410 to 601 mg/L in pre-monsoon season while 83 to 159 mg/L and 292 to 510 mg/L in post-monsoon season respectively. Further water quality of river Hindon has been assessed using water quality index and the quality of river Hindon was observed to be BAD at all site which may be attributed to untreated and/or partially treated waste inputs of municipal and industrial effluents joining the river

Distributed Systems - George F. Coulouris 2011

"[This] book aims to provide an understanding of the principles on which the Internet and other distributed systems are based; their architecture, algorithms and design; and how they meet the demands of contemporary distributed applications."--p. xii.

Sword Art Online 10 (light novel) - Reki Kawahara 2017-07-25

Two years after waking up in a mysterious fantasy world, Kirito and his oddly human NPC friend, Eugeo, continue their quest to become Integrity Knights--and find Alice, who disappeared so long ago and yet has somehow lingered in the back of Kirito's mind. Their journey takes them to the Imperial Swordcraft Academy, where they must train to become two of the top twelve seats in the class to have even a hope of seeing Alice again. Meanwhile, as Asuna desperately searches for Kazuto Kirigaya, she stumbles across the deeper secret of his new world...

Introduction to Scheduling - Yves Robert 2009-11-18

Full of practical examples, Introduction to Scheduling presents the basic concepts and methods, fundamental results, and recent developments of scheduling theory. With contributions from highly

respected experts, it provides self-contained, easy-to-follow, yet rigorous presentations of the material. The book first classifies scheduling problems and their complexity and then presents examples that demonstrate successful techniques for the design of efficient approximation algorithms. It also discusses classical problems, such as the famous makespan minimization problem, as well as more recent advances, such as energy-efficient scheduling algorithms. After focusing on job scheduling problems that encompass independent and possibly parallel jobs, the text moves on to a practical application of cyclic scheduling for the synthesis of embedded systems. It also proves that efficient schedules can be derived in the context of steady-state scheduling. Subsequent chapters discuss scheduling large and computer-intensive applications on parallel resources, illustrate different approaches of multi-objective scheduling, and show how to compare the performance of stochastic task-resource systems. The final chapter assesses the impact of platform models on scheduling techniques. From the basics to advanced topics and platform models, this volume provides a thorough introduction to the field. It reviews classical methods, explores more contemporary models, and shows how the techniques and algorithms are used in practice.

Multimodal User Interfaces - Dimitros Tzovaras 2008-02-27

tionship indicates how multimodal medical image processing can be unified to a large extent, e. g. multi-channel segmentation and image registration, and extend information theoretic registration to other features than image intensities. The framework is not at all restricted to medical images though and this is illustrated by applying it to multimedia sequences as well. In Chapter 4, the main results from the developments in plastic UIs and mul- modal UIs are brought together using a theoretic and conceptual perspective as a unifying approach. It is aimed at defining models useful to support UI plasticity by relying on multimodality, at introducing and discussing basic principles that can drive the development of such UIs, and at describing some techniques as proof-of-concept of the aforementioned models and principles. In Chapter 4, the authors introduce running examples that serve as illustration throughout the d- cussion of the use of multimodality to support plasticity.