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The Cumulative Book Index 1997 A world list of books in the English language.
Distributed Systems Andrew S. Tanenbaum 2016 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.
Proceedings of the Sixteenth ACM Symposium on Operating Systems Principles 1997
Operating System Concepts Abraham Silberschatz 2011-07-05 Operating System Concepts continues to provide a solid theoretical foundation for understanding operating systems. The 8th Edition Update includes more coverage of the most current topics in the rapidly changing fields of operating systems and networking, including open-source operating systems. The use of simulators and operating system emulators is incorporated to allow operating system operation demonstrations and full programming projects. The text also includes improved conceptual coverage and additional content to bridge the gap between concepts and actual implementations. New end-of-chapter problems, exercises, review questions, and programming exercises help to further reinforce important concepts, while WileyPLUS continues to motivate students and offer comprehensive support for the material in an interactive format.
Distributed Systems George Coulouris 2013-11-06 Broad and up-to-date coverage of the principles and practice in the fast moving area of Distributed Systems. Distributed Systems provides students of computer science and engineering with the skills they will need to design and maintain software for distributed applications. It will also be invaluable to software engineers and systems designers wishing to understand new and future developments in the field. From mobile phones to the Internet, our lives depend increasingly on distributed systems linking computers and other devices together in a seamless and transparent way. The fifth edition of this best-selling text continues to provide a comprehensive source of material on the principles and practice of distributed computer systems and the exciting new developments based on them, using a wealth of modern case studies to illustrate their design and development. The depth of coverage will enable students to evaluate existing distributed systems and design new ones.
Professional Linux Kernel Architecture Wolfgang Mauerer 2010-03-11 Find an introduction to the architecture, concepts and algorithms of the Linux kernel in Professional Linux Kernel Architecture, a guide to the kernel sources and large number of connections among subsystems. Find an introduction to the relevant structures and functions exported by the kernel to userland, understand the theoretical and conceptual aspects of the Linux kernel and Unix derivatives, and gain a deeper understanding of the kernel. Learn how to reduce the vast amount of information contained in the kernel sources and obtain the skills necessary to understand the kernel sources.

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.
Advances in Computer and Computational Sciences Sanjiv K. Bhatia 2017-05-25 Exchange of information and innovative ideas are necessary to accelerate the development of technology. With advent of technology, intelligent and soft computing techniques came into existence with a wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the 'Advances in Computer and Computational Sciences' from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Computer, Communication and Computational Sciences (ICCCS 2016)', held during 12-13 August, 2016 in Ajmer, India. These papers are arranged in the form of chapters. The content of the book is divided into two volumes that cover variety of topics such as intelligent hardware and software design, advanced communications, power and energy optimization, intelligent techniques used in internet of things, intelligent image processing, advanced software engineering, evolutionary and soft computing, security and many more. This book helps the perspective readers' from computer industry and academia to derive the advances of next generation computer and communication technology and shape them into real life applications.
Software Testing and Analysis Mauro Pezze 2008 Teaches readers how to test and analyze software to achieve an acceptable level of quality at an acceptable cost Readers will be able to minimize software failures, increase quality, and effectively manage costs Covers techniques that are suitable for near-term application, with sufficient technical background to indicate how and when to apply them Provides balanced coverage of software testing & analysis approaches By incorporating modern topics and strategies, this book will be the standard software-testing textbook
Principles of Operating Systems Brian L Stuart 2021-06-27 Principles of Operating Systems is an in-depth look at the internals of operating systems. It includes chapters on general principles of process management, memory management, I/O device management, and file systems. Each major topic area also includes a chapter surveying the approach taken by nine examples of operating systems. Setting this book apart are chapters that examine in detail selections of the source code for the Inferno operating system and the Linux operating system.

DISTRIBUTED OPERATING SYSTEMS: CONCEPTS AND DESIGN Pradeep Kumar Sinha 2001
Transactional Information Systems Gerhard Weikum 2002 This book describes the theory, algorithms, and practical implementation techniques behind transaction processing in information technology systems.
Principles of Operating Systems Naresh Chauhan 2014 Divided into eight parts, the book tries to provide a comprehensive coverage of topics, beginning with OS architectures and then moving on to process scheduling, inter-process communication and synchronization, deadlocks, and multi-threading. Under the part on memory management, basic memory management and virtual memory are discussed. These are followed by chapters on file management and I/O management. Security and protection of operating systems are also discussed in detail. Further, advanced OSs such as distributed, multi-processor, real-time, mobile, and multimedia OSs are presented. Android OS, being one of the most popular, is discussed under mobile operating systems. The last part of the book discusses shell programming, which will help students perform the lab experiments for this course. The first six parts contain case studies on UNIX, Solaris, Linux, and Windows.

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.

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing Management Association, Information Resources 2021-01-25 Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Foundations of Computing Pradeep K. Sinha 2022-12-12 DESCRIPTION If you wish to have a bright future in any profession today, you cannot ignore having sound foundation in Information Technology (IT). Hence, you cannot ignore to have this book because it provides comprehensive coverage of all important topics in IT. Foundations of Computing is designed to introduce through a single book the important concepts of the Foundation Courses in Computer Science (CS), Computer Applications (CA), and Information Technology (IT) programs taught at undergraduate and postgraduate levels. WHAT YOU WILL LEARN ● Characteristics, Evolution and Classification of computers. ● Binary, Octal and Hexadecimal Number systems, Computer codes and Binary arithmetic. ● Boolean algebra, Logic gates, Flip-Flops, and Design of Combinational and Sequential Circuits. ● Computer architecture, including design of CPU, Memory, Secondary storage, and I/O devices. ● Computer software, how to acquire software, and the commonly used tools and techniques for planning, developing, implementing, and operating software systems. ● Programming languages, Operating systems, Communication technologies,

Computer networks, Multimedia computing, and Information security. ● Database and Data Science technologies. ● The Internet, Internet of Things (IoT), E-Governance, Geo-informatics, Medical Informatics, Bioinformatics, and many more. WHO THIS BOOK IS FOR ● Students of CS, CA and IT will find the book suitable for use as a textbook or reference book. ● Professionals will find it suitable for use as a reference book for topics in CS, CA and IT. ● Applicants preparing for various entrance tests and competitive examinations will find it suitable for clearing their concepts of CS, CA and IT. ● Anyone else interested in developing a clear understanding of the important concepts of various topics in CS, CA and IT will also find this book useful. TABLE OF CONTENTS Letter to Readers Preface About Lecture Notes Presentation Slides Abbreviations 1. Characteristics, Evolution, And Classification Of Computers 2. Internal Data Representation In Computers 3. Digital Systems Design 4. Computer Architecture 5. Secondary Storage 6. Input-Output Devices 7. Software 8. Planning The Computer Program 9. Programming Languages 10. Operating Systems 11. Database And Data Science 12. Data Communications and Computer Networks 13. The Internet and Internet Of Things 14. Multimedia Computing 15. Information Security 16. Application Domains Glossary Index Know Your Author

International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2004) Theodore Simos 2019-04-29 The International Conference of Computational Methods in Sciences and Engineering (ICCMSE) is unique in its kind. It regroups original contributions from all fields of the traditional Sciences, Mathematics, Physics, Chemistry, Biology, Medicine and all branches of Engineering. The aim of the conference is to bring together computational scientists from several disciplines in order to share methods and ideas. More than 370 extended abstracts have been submitted for consideration for presentation in ICCMSE 2004. From these, 289 extended abstracts have been selected after international peer review by at least two independent reviewers.

The Structuring of Organizations Henry Mintzberg 1979 Presents methods and examples of organizational structure using empirical literature to describe how organizations structure themselves. The book discusses the nature of managerial work, strategy formation process and issues associated with each type of structure.

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.

Database Internals Alex Petrov 2019-09-13 When it comes to choosing, using, and maintaining a database, understanding its internals is essential. But with so many distributed databases and tools available today, it's often difficult to understand what each one offers and how they differ. With this practical guide, Alex Petrov guides developers through the concepts behind modern database and storage engine internals. Throughout the book, you'll explore relevant material gleaned from numerous books, papers, blog posts, and the source code of several open source databases. These resources are listed at the end of parts one and two. You'll discover that the most significant distinctions among many modern databases reside in subsystems that determine how storage is organized and how data is distributed. This book examines: Storage engines: Explore storage classification and taxonomy, and dive into B-Tree-based and immutable Log Structured storage engines, with differences and use-cases for each Storage building blocks: Learn how database files are organized to build efficient storage, using auxiliary data structures such as Page Cache, Buffer Pool and Write-Ahead Log Distributed systems: Learn step-by-step how nodes and processes connect and build complex communication patterns Database clusters: Which consistency models are commonly used by modern databases and how distributed storage systems achieve consistency

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American Book Publishing Record Cumulative 1998 R R Bowker Publishing 1999-03
Instrumentation and Process Control Janardan Prasad 2013-12-30 Instrumentation and control system is the heart of all processing industries. No process can run without the aid of instrumentation. Therefore, sometimes it is said that instruments are eyes of process through which a process operators visualize the process behaviour. Instrumentation and control concepts have undergone a drastic change over the past few years. The book is meant for the graduate level course of Instrumentation and Process Control (Electrical & Electronics and Instrumentation & Control disciplines). The topics have been divided in 8 chapters. The first three are devoted to Transducers. In these chapters, stress has been given on Transducer Signal Selection, Pneumatic Transmitters, Smart Transmitters, Special Class Thermocouple, Nuclonic Level Gage, Electronic Level Gage & others. In the chapter on Telemetry, pneumatic transmissions have been added in addition to usual topics. In the chapter Process Control, three element control systems have been described through examples of Boiler Drum Level Control. And lastly in Recent Developments & Microprocessor Based Instrumentation System, development of PLC and distributed control system and instrumentation protocol have been described in greater detail with suitable examples. The book is a perfect match of instruments that are still in use and which have been recently developed.

Sistemas Operativos Martín SILVA Este libro orienta a los alumnos en el estudio de la materia dándoles las pautas generales para el estudio y comprensión conceptual de la materia, pero sobre todo desarrolla en el lector la capacidad de razonamiento y el sentido crítico, aquello que está más allá de la moda o la tecnología del momento. Aborda los temas desde diferentes enfoques. Hace abundantes referencias a la bibliografía existente para dar a los estudiantes la oportunidad de ampliar la información en fuentes diversas. Sistemas operativos es una materia fundamental en la carrera de Ingeniería de Sistemas (Computación - Informática) y también en las Licenciaturas. Se orienta al alumno para que pueda entender cómo se “relacionan” los programas que desarrolla con los Sistemas Operativos para los cuales programa. El Profesor Silva es docente de la materia desde hace varios años. El índice se ajusta a la currícula de nuestros países, contemplando las generalidades de Windows en todas sus versiones (desde XP a Seven) y Linux. Carreras: ingeniería en computación, Ingeniería en informática, Ingeniería en sistemas computacionales. Ventajas competitivas El libro cuenta con un profundo estudio de las características no documentadas de Windows, con lo que se obtuvo una aproximación real a su funcionamiento, más allá de que también toca los temas clásicos de la disciplina. Ayuda a comprender los conceptos fundamentales, ayuda a aprender en base al razonamiento, realiza enfoques diversos y aplica juicios críticos, lo que deja las bases para una práctica efectiva y estudio permanente de la materia. Fue evaluado por docentes Mexicanos y se tomaron los cambios que ellos indicaron para que se adaptara a las necesidades de su mercado. Enseña razonando, presenta los temas recurrentemente desde diversos puntos de vista, con numerosas referencias bibliográficas e históricas, lo que desarrolla el sentido crítico del estudiante.
Foundations of Computing Pradeep K. Sinhs 2002-11-01 This Thoughtfully Organized Book Has Been Designed To Provide Its Readers With A Sound Foundation Of Computers And Information Technology. The Number Of Chapters, Chapter Topics, And The Contents Of Each Chapter Have Been Carefully Chosen To Introduce The Readers To All Important Concepts Through A Single Book. Each Chapter Addresses The Fundamental Concepts, Popular Technologies, And Current State-Of-The-Art Topics. Complete With Numerous Illustrations And Examples, Chapter Summaries, End-Of-Chapter Questions, And A Glossary Of Important Terms, Foundations Of Computing Is Designed To Serve As An Ideal Textbook For Various Courses Offered In

Computer Science, Information Technology, And Other Related Areas. You Will Find Sufficient Coverage Of All Major Topics In The Field, Including Several New And Advanced Topics, Such As:Software Engineering,Object-Oriented Programming,Network, Distributed, And Real-Time Operating Systems,Unix, Windows, And Linux Operating Systems,Relational, Object-Oriented, And Multimedia Databases,Data Warehousing And Data Mining,Information Security In Computer Systems,Multimedia Computing Systems And Applications,Wireless Networks,The Internet,And Many More&..

[The Dhaka University Journal of Science](#) 2007

Cyber Security in Parallel and Distributed Computing Dac-Nhuong Le 2019-04-16 The book contains several new concepts, techniques, applications and case studies for cyber securities in parallel and distributed computing The main objective of this book is to explore the concept of cybersecurity in parallel and distributed computing along with recent research developments in the field. Also included are various real-time/offline applications and case studies in the fields of engineering and computer science and the modern tools and technologies used. Information concerning various topics relating to cybersecurity technologies is organized within the sixteen chapters of this book. Some of the important topics covered include: Research and solutions for the problem of hidden image detection Security aspects of data mining and possible solution techniques A comparative analysis of various methods used in e-commerce security and how to perform secure payment transactions in an efficient manner Blockchain technology and how it is crucial to the security industry Security for the Internet of Things Security issues and challenges in distributed computing security such as heterogeneous computing, cloud computing, fog computing, etc. Demonstrates the administration task issue in unified cloud situations as a multi-target enhancement issue in light of security Explores the concepts of cybercrime and cybersecurity and presents the statistical impact it is having on organizations Security policies and mechanisms, various categories of attacks (e.g., denial-of-service), global security architecture, along with distribution of security mechanisms Security issues in the healthcare sector with existing solutions and emerging threats.

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.

Pattern-Oriented Software Architecture, Patterns for Concurrent and Networked Objects Douglas C. Schmidt 2000-10-03

Designing application software to run in distributed and concurrent environments is a challenge facing software developers. These patterns form the basis of a pattern language that address issues of distribution, concurrency and networking.

Distributed operating systems 1994

High Performance Computation and Database of Radiative Properties with Interface for ICF Applications Jiankui Yuan 2001

Kubernetes Patterns Bilgin Ibryam 2019-04-09 The way developers design, build, and run software has changed significantly with the evolution of microservices and containers. These modern architectures use new primitives that require a different set of practices than most developers, tech leads, and architects are accustomed to. With this focused guide, Bilgin Ibryam and Roland Huß from Red Hat provide common reusable elements, patterns, principles, and practices for designing and implementing cloud-native applications on Kubernetes. Each pattern includes a description of the problem and a proposed solution with Kubernetes specifics. Many patterns are also backed by concrete code examples. This book is ideal for developers already familiar with basic Kubernetes concepts who want to learn common cloud native patterns. You'll learn about the following pattern categories: Foundational patterns cover the core principles and practices for building container-based cloud-native applications. Behavioral patterns explore finer-grained concepts for managing various types of container and platform interactions. Structural patterns help you organize containers within a pod, the atom of the Kubernetes platform. Configuration patterns provide insight into how application configurations can be handled in Kubernetes. Advanced patterns covers more advanced topics such as extending the platform with operators.

Electronic Health Record Pradeep K. Sinha 2012-11-27 Discover How Electronic Health Records Are Built to Drive the Next Generation of Healthcare Delivery The increased role of IT in the healthcare sector has led to the coining of a new phrase "health informatics," which deals with the use of IT for better healthcare services. Health informatics applications often involve maintaining the health records of individuals, in digital form, which is referred to as an

Electronic Health Record (EHR). Building and implementing an EHR infrastructure requires an understanding of healthcare standards, coding systems, and frameworks. This book provides an overview of different health informatics resources and artifacts that underlie the design and development of interoperable healthcare systems and applications. Electronic Health Record: Standards, Coding Systems, Frameworks, and Infrastructures compiles, for the first time, study and analysis results that EHR professionals previously had to gather from multiple sources. It benefits readers by giving them an understanding of what roles a particular healthcare standard, code, or framework plays in EHR design and overall IT-enabled healthcare services along with the issues involved. This book on Electronic Health Record: Offers the most comprehensive coverage of available EHR Standards including ISO, European Union Standards, and national initiatives by Sweden, the Netherlands, Canada, Australia, and many others Provides assessment of existing standards Includes a glossary of frequently used terms in the area of EHR Contains numerous diagrams and illustrations to facilitate comprehension Discusses security and reliability of data

AN INTRODUCTION TO OPERATING SYSTEMS : CONCEPTS AND PRACTICE (GNU/LINUX AND WINDOWS), FIFTH EDITION BHATT, PRAMOD CHANDRA P. 2019-07-01 The book, now in its Fifth Edition, aims to provide a practical view of GNU/Linux and Windows 7, 8 and 10, covering different design considerations and patterns of use. The section on concepts covers fundamental principles, such as file systems, process management, memory management, input-output, resource sharing, inter-process communication (IPC), distributed computing, OS security, real-time and microkernel design. This thoroughly revised edition comes with a description of an instructional OS to support teaching of OS and also covers Android, currently the most popular OS for handheld systems. Basically, this text enables students to learn by practicing with the examples and doing exercises. NEW TO THE FIFTH EDITION • Includes the details on Windows 7, 8 and 10 • Describes an Instructional Operating System (PintOS), FEDORA and Android • The following additional material related to the book is available at www.phindia.com/bhatt. o Source Code Control System in UNIX o X-Windows in UNIX o System Administration in UNIX o VxWorks Operating System (full chapter) o OS for handheld systems, excluding Android o The student projects o Questions for practice for selected chapters TARGET AUDIENCE • BE/B.Tech (Computer Science and Engineering and Information Technology) • M.Sc. (Computer Science) BCA/MCA

INFORMATION TECHNOLOGY : THEORY AND PRACTICE SINHA, PRADEEP K. 2016-03-14 This book is based on the premise that knowledge of Information Technology (IT) is essential today for people in every walk of life and all types of profession. It is designed to impart a unified body of knowledge and practice in IT to its readers. Readers can apply this knowledge in innovative ways for various strategic advantages such as increasing productivity, improving quality of products and services, problem solving, decision making, and improving their own and others living standards. The textbook takes a practical approach to introduce the various components of IT to its readers. While doing so, it demonstrates how IT is being used in modern enterprises by various departments to carry out their activities with greater ease, speed, and accuracy than before. It also introduces several new business models and practices made possible due to IT that enterprises are now using for better profitability. In the process, the book provides to its readers a sound foundation of various components and aspects of IT. It also introduces to its readers several latest concepts and technologies in IT such as Wearable computers, Green computing, Cloud computing, Speech recognition and voice response systems, 4G and 5G networks, Big data analytics, Data science, Web 3.0, IPv6, 3D printing, Enterprise 2.0 organization, etc.

Scheduling in Distributed Computing Systems Deo Prakash Vidyarthi 2008-10-20 This book intends to inculcate the innovative ideas for the scheduling aspect in distributed computing systems. Although the models in this book have been designed for distributed systems, the same information is applicable for any type of system. The book will dramatically improve the design and management of the processes for industry professionals. It deals exclusively with the scheduling aspect, which finds little space in other distributed operating system books. Structured for a professional audience composed of researchers and practitioners in industry, this book is also suitable as a reference for graduate-level students.

Modern Operating Systems Andrew S. Tanenbaum 2015 Modern Operating Systems is intended for introductory courses in Operating Systems in Computer Science, Computer Engineering, and Electrical Engineering programs.

Distributed Computing Hagit Attiya 2004-03-25 * Comprehensive introduction to the fundamental results in the mathematical foundations of distributed computing * Accompanied by supporting material, such as lecture notes and solutions for selected exercises * Each chapter ends with bibliographical notes and a set of exercises * Covers the fundamental models, issues and techniques, and features some of the more advanced topics

Advanced Concepts in Operating Systems Mukesh Singhal 2011

COMPUTER FUNDAMENTALS (SEMESTER - I). P. K. SINGH 2015