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James A. Goodman,Samuel J. Purkis,Stuart R. Phinn

File System Forensic Analysis Brian Carrier,2005-03-17 The Definitive Guide to File System Analysis: Key Concepts and Hands-on Techniques Most digital evidence is stored within the computer's file system, but understanding how file systems work is one of the most technically challenging concepts for a digital investigator because there exists little documentation. Now, security expert Brian Carrier has written the definitive reference for everyone who wants to understand and be able to testify about how file system analysis is performed. Carrier begins with an overview of investigation and computer foundations and then gives an authoritative, comprehensive, and illustrated overview of contemporary volume and file systems: Crucial information for discovering hidden evidence, recovering deleted data, and validating your tools. Along the way, he describes data structures, analyzes example disk images, provides advanced investigation scenarios, and uses today's most valuable open source file system analysis tools—including tools he personally developed. Coverage includes Preserving the digital crime scene and duplicating hard disks for dead analysis Identifying hidden data on a disk's Host Protected Area (HPA) Reading source data: Direct versus BIOS access, dead versus live acquisition, error handling, and more Analyzing DOS, Apple, and GPT partitions; BSD disk labels; and Sun Volume Table of Contents using key concepts, data structures, and specific techniques Analyzing the contents of multiple disk volumes, such as RAID and disk spanning Analyzing FAT, NTFS, Ext2, Ext3, UFS1, and UFS2 file systems using key concepts, data structures, and specific techniques Finding evidence: File metadata, recovery of deleted files, data hiding locations, and more Using The Sleuth Kit (TSK), Autopsy Forensic Browser, and related open source tools When it comes to file system analysis, no other book offers this much detail or expertise. Whether you're a digital forensics specialist, incident response team member, law enforcement officer, corporate security specialist, or auditor, this book will become an indispensable resource for forensic investigations, no matter what analysis tools you use.

Game Engine Architecture Jason Gregory,2017-03-27 Hailed as a must-have textbook (CHOICE, January 2010), the first edition of Game Engine Architecture provided readers with a complete guide to the theory and practice of game engine software development. Updating the content to match today's landscape of game engine architecture, this second edition continues to thoroughly cover the major components that make up a typical commercial game engine. New to the Second Edition Information on new topics, including the latest variant of the C++ programming language, C++11, and the architecture of the eighth generation of gaming consoles, the Xbox One and PlayStation 4 New chapter on audio technology covering the fundamentals of the physics, mathematics, and technology that go into creating an AAA game audio engine Updated sections on multicore programming, pipelined CPU architecture and optimization, localization, pseudovectors and Grassman algebra, dual quaternions, SIMD vector math, memory alignment, and anti-aliasing Insight into the making of Naughty Dog's latest hit, The Last of Us The book presents the theory underlying various subsystems that comprise a commercial game engine as well as the data structures, algorithms, and software interfaces that are typically used to implement them. It primarily focuses on the engine itself, including a host of low-level foundation systems, the rendering engine, the collision system, the physics simulation,

character animation, and audio. An in-depth discussion on the gameplay foundation layer delves into the game's object model, world editor, event system, and scripting system. The text also touches on some aspects of gameplay programming, including player mechanics, cameras, and AI. An awareness-building tool and a jumping-off point for further learning, Game Engine Architecture, Second Edition gives readers a solid understanding of both the theory and common practices employed within each of the engineering disciplines covered. The book will help readers on their journey through this fascinating and multifaceted field.

PISA for Development Assessment and Analytical Framework Reading, Mathematics and Science OECD,2018-09-25 "What is important for citizens to know and be able to do?" The OECD Programme for International Student Assessment (PISA) seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills. As more countries join its ranks, PISA ...

Education Reform and the Limits of Policy Michael Addonizio,C. Philip Kearney,2012

Taxpayer Advocate Service is Here to Help United States. Taxpayer Advocate Service,

The State of the World's Children 2019 United Nations,2019-10-15 This report examines nutrition, providing a fresh perspective on a rapidly evolving challenge. Despite progress in the past two decades, around 200 million under-fives suffer from undernutrition. Adding to this toll is rising obesity, which affects 38 million children. All these forms of malnutrition threaten children□s development, while obesity is creating a lifelong legacy of disease. At the heart of this evolving challenge is a global shift towards modern diets that do not meet children□s nutritional requirements. The report provides unique data and analysis of malnutrition in the 21st century and outlines recommendations to put children□s needs at the heart of global and national food systems.

Tele-tax United States. Internal Revenue Service,1988

Reel Time Robert Morris Seiler,Tamara Palmer Seiler,2013 In this authoritative work, Seiler and Seiler argues that the establishment and development of moviegoing and movie exhibition in Prairie Canada is best understood in the context of changing late-nineteenth-century and early-twentieth-century social, economic, and technological developments. From the first entrepreneurs who attempted to lure customers in to movie exhibition halls, to the digital revolution and its impact on moviegoing, Reel Time highlights the pivotal role of amusement venues in shaping the leisure activities of working- and middle-class people across North America. As marketing efforts, the lavish interiors of the movie palace and the romantic view of the local movie theatre concealed a competitive environment in which producers, exhibitors, and distributors tried to monopolize the industry and drive their rivals out of business. The pitched battles and power struggles between national movie theatre chains took place at the same time that movie exhibitors launched campaigns to reassure moviegoers that theatres were no longer the unclean and immoral places of amusement of yesteryear. Under the leadership of impresarios, the movie theatre rose up from these attacks to become an important social and cultural centre - one deemed suitable for women and children. An innovative examination of moviegoing as a social practice and movie exhibition as a commercial enterprise, Reel Time depicts

how the industry shaped the development of the Canadian Prairie West and propelled the region into the modern era. Robert M. Seiler is associate professor emeritus in communication and culture at the University of Calgary. Tamara P. Seiler is professor emeritus of Canadian studies at the University of Calgary. Reel Time is their second joint publication.

The Science of Solar System Ices Murthy S. Gudipati,Julie Castillo-Rogez,2012-07-28 The role of laboratory research and simulations in advancing our understanding of solar system ices (including satellites, KBOs, comets, and giant planets) is becoming increasingly important. Understanding ice surface radiation processing, particle and radiation penetration depths, surface and subsurface chemistry, morphology, phases, density, conductivity, etc., are only a few examples of the inventory of issues that are being addressed by Earth-based laboratory research. As a response to the growing need for cross-disciplinary dialog and communication in the Planetary Ices science community, this book aims to achieve direct dialog and foster focused collaborations among the observational, modeling, and laboratory research communities.

Biomechanics of the Brain Karol Miller,2019-08-08 This new edition presents an authoritative account of the current state of brain biomechanics research for engineers, scientists and medical professionals. Since the first edition in 2011, this topic has unquestionably entered into the mainstream of biomechanical research. The book brings together leading scientists in the diverse fields of anatomy, neuroimaging, image-guided neurosurgery, brain injury, solid and fluid mechanics, mathematical modelling and computer simulation to paint an inclusive picture of the rapidly evolving field. Covering topics from brain anatomy and imaging to sophisticated methods of modeling brain injury and neurosurgery (including the most recent applications of biomechanics to treat epilepsy), to the cutting edge methods in analyzing cerebrospinal fluid and blood flow, this book is the comprehensive reference in the field. Experienced researchers as well as students will find this book useful.

Scale and Scope Alfred Dupont CHANDLER,Takashi Hikino,Alfred D Chandler,2009-06-30 Scale and Scope is Alfred Chandler's first major work since his Pulitzer Prize-winning The Visible Hand. Representing ten years of research into the history of the managerial business system, this book concentrates on patterns of growth and competitiveness in the United States, Germany, and Great Britain, tracing the evolution of large firms into multinational giants and orienting the late twentieth century's most important developments. This edition includes the entire hardcover edition with the exception of the Appendix Tables.

Brey Barry B. Brey,2013-11-01 Keeping students on the forefront of technology, this text offers a practical reference to all programming and interfacing aspects of the popular Intel microprocessor family.

Configuring and Deploying Open Source with IBM WebSphere Application Server Liberty Profile Rufus Credle,Shao Jan Ding,Miho Hachitani,Jagdish Komakula,Catalin Mierlea,Pete Neergaard,Alexander Poga,Grzegorz Smolko,Sebastian Thomschke,Marek Zajac,IBM Redbooks,2015-07-21 This IBM® Redbooks® publication explains the capabilities of IBM WebSphere® Application Server Liberty profile (Liberty profile), which is lightweight, easy to install, and fast to use. Liberty profile provides a convenient and capable platform for developing and testing your web and OSGi applications. The

Liberty profile server is built by using OSGi technology and concepts. The fit-for-purpose nature of the run time relies on the dynamic behavior that is inherent in the OSGi framework and service registry. As bundles are installed or uninstalled from the framework, their services are automatically added or removed from the service registry. The result is a dynamic, composable run time that can be provisioned with only what your application requires and responds dynamically to configuration changes as your application evolves. This book can help you install, customize, and configure several popular open source technologies that can be deployed effectively with the Liberty profile server. The following popular open source toolkits for the Liberty profile server were selected for this book based on the significant enhancements they provide to the web application development process: Apache Maven Spring Framework Hibernate Jenkins Opscode Chef Arquillian MongoDB In this book, the Todo sample demonstrates the use of multiple open source frameworks or toolkits with the Liberty profile server, including Maven, MongoDB, Spring, JPA, Arquillian, Wicket, and others. The Todo sample is a simple application that can be used to create, update, and delete todo items and todo lists, and put the todo items into a related todo list.

 Sustainable Building for a Cleaner Environment Ali Sayigh,2018-07-12 This book contains selected papers presented during the bi-annual World Renewable Energy Network's Med Green Forum aimed at the international community as well as Mediterranean countries. This forum highlights the importance of growing renewable energy applications in two main sectors: Electricity Generation and the Sustainable Building Sector. In-depth chapters highlight the most current research and technological breakthroughs, covering a broad range of renewable energy technologies and applications in all sectors – for electricity production, heating and cooling, agricultural applications, water desalination, industrial applications and for the transport sectors.

 Novel Approaches for Bioremediation of Organic Pollution Raffi Fass,Yehuda Flashner,Shaul Reuveny,2012-12-06 Proceedings of the 42nd OHOLO Conference held in Eilat, Israel, May 3-7, 1998

 Coral Reef Remote Sensing James A. Goodman,Samuel J. Purkis,Stuart R. Phinn,2013-04-18 Remote sensing stands as the defining technology in our ability to monitor coral reefs, as well as their biophysical properties and associated processes, at regional to global scales. With overwhelming evidence that much of Earth's reefs are in decline, our need for large-scale, repeatable assessments of reefs has never been so great. Fortunately, the last two decades have seen a rapid expansion in the ability for remote sensing to map and monitor the coral reef ecosystem, its overlying water column, and surrounding environment. Remote sensing is now a fundamental tool for the mapping, monitoring and management of coral reef ecosystems. Remote sensing offers repeatable, quantitative assessments of habitat and environmental characteristics over spatially extensive areas. As the multi-disciplinary field of coral reef remote sensing continues to mature, results demonstrate that the techniques and capabilities continue to improve. New developments allow reef assessments and mapping to be performed with higher accuracy, across greater spatial areas, and with greater temporal frequency. The increased level of information that remote sensing now makes available also allows more complex scientific questions to be addressed. As defined for this book, remote sensing includes the vast array of geospatial data collected from land, water, ship, airborne and satellite platforms. The book

is organized by technology, including: visible and infrared sensing using photographic, multispectral and hyperspectral instruments; active sensing using light detection and ranging (LiDAR); acoustic sensing using ship, autonomous underwater vehicle (AUV) and in-water platforms; and thermal and radar instruments. Emphasis and Audience This book serves multiple roles. It offers an overview of the current state-of-the-art technologies for reef mapping, provides detailed technical information for coral reef remote sensing specialists, imparts insight on the scientific questions that can be tackled using this technology, and also includes a foundation for those new to reef remote sensing. The individual sections of the book include introductory overviews of four main types of remotely sensed data used to study coral reefs, followed by specific examples demonstrating practical applications of the different technologies being discussed. Guidelines for selecting the most appropriate sensor for particular applications are provided, including an overview of how to utilize remote sensing data as an effective tool in science and management. The text is richly illustrated with examples of each sensing technology applied to a range of scientific, monitoring and management questions in reefs around the world. As such, the book is broadly accessible to a general audience, as well as students, managers, remote sensing specialists and anyone else working with coral reef ecosystems.

State of the World's Children UNICEF.,2009 On 20 November 2009, the global community celebrates the 20th anniversary of the adoption by the United Nations General Assembly of the Convention on the Rights of the Child, the unique document that sets international standards for the care, treatment and protection of all individuals below age 18. To celebrate this landmark, the United Nations Children's Fund is dedicating a special edition of its flagship report The State of the World's Children to examining the Convention's evolution, progress achieved on child rights, challenges remaining, and actions to be taken to ensure that its promise becomes a reality for all children.

The Freedom Schools Jon N. Hale,2016-06-07 Created in 1964 as part of the Mississippi Freedom Summer, the Mississippi Freedom Schools were launched by educators and activists to provide an alternative education for African American students that would facilitate student activism and participatory democracy. The schools, as Jon N. Hale demonstrates, had a crucial role in the civil rights movement and a major impact on the development of progressive education throughout the nation. Designed and run by African American and white educators and activists, the Freedom Schools counteracted segregationist policies that inhibited opportunities for black youth. Providing high-quality, progressive education that addressed issues of social justice, the schools prepared African American students to fight for freedom on all fronts. Forming a political network, the Freedom Schools taught students how, when, and where to engage politically, shaping activists who trained others to challenge inequality. Based on dozens of first-time interviews with former Freedom School students and teachers and on rich archival materials, this remarkable social history of the Mississippi Freedom Schools is told from the perspective of those frequently left out of civil rights narratives that focus on national leadership or college protestors. Hale reveals the role that school-age students played in the civil rights movement and the crucial contribution made by grassroots activists on the

local level. He also examines the challenges confronted by Freedom School activists and teachers, such as intimidation by racist Mississippians and race relations between blacks and whites within the schools. In tracing the stories of Freedom School students into adulthood, this book reveals the ways in which these individuals turned training into decades of activism. Former students and teachers speak eloquently about the principles that informed their practice and the influence that the Freedom School curriculum has had on education. They also offer key strategies for further integrating the American school system and politically engaging today's youth.

Perovskite Quantum Dots Ye Zhou,Yan Wang,2020-08-27 This book addresses perovskite quantum dots, discussing their unique properties, synthesis, and applications in nanoscale optoelectronic and photonic devices, as well as the challenges and possible solutions in the context of device design and the prospects for commercial applications. It particularly focuses on the luminescent properties, which differ from those of the corresponding quantum dots materials, such as multicolor emission, fluorescence narrowing, and tunable and switchable emissions from doped nanostructures. The book first describes the characterization and fabrication of perovskite quantum dots. It also provides detailed methods for analyzing the electrical and optical properties, and demonstrates promising applications of perovskite quantum dots. Furthermore, it presents a series of optoelectronic and photonic devices based on functional perovskite quantum dots, and explains the incorporation of perovskite quantum dots in semiconductor devices and their effect of the performance. It also explores the challenges related to optoelectronic devices, as well as possible strategies to promote their commercialization. As such, this book is a valuable resource for graduate students and researchers in the field of solid-state materials and electronics wanting to gain a better understanding of the characteristics of quantum dots, and the fundamental optoelectronic properties and operation mechanisms of the latest perovskite quantum dot-based devices.

Digital Economy. Emerging Technologies and Business Innovation Rim Jallouli,Mohamed Anis Bach Tobji,Deny Bélisle,Sehl Mellouli,Farid Abdallah,Ibrahim Osman,2019-09-20 This book constitutes the refereed proceedings of the 4th International Conference on Digital Economy, ICDEc 2019, held in Beirut, Lebanon, in April 2019. The conference was founded in 2016 to discuss innovative research and projects related to the support role of Information System Technologies in the digital transformation process, business innovation and e-commerce. The 31 papers presented in this volume were carefully reviewed and selected from 89 submissions. The theme of ICDEc 2019 was "Digital Economy: Emerging Technologies and Business Innovation". The papers were organized in topical sections named: digital transformation; e-finance; social media communication; intelligent systems; e-commerce and business analytics; e-learning and cloud education; e-commerce and digital economy; data science; digital marketing; and digital business model.

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