

Magazine Dicembre 2017 Network Multimediale Di

Eighteen years after the decomposed body of an unidentified young woman is discovered in a quarry off California's Highway 1, two police detectives nearing retirement enlist Kinsey Millhone's aid to help identify the long-ago murder victim, as Kinsey's journey into the past unleashes a deadly investigation in the present. 800,000 first printing.

"Off the coast of Brazil, a team of scientists discovers a horror like no other, an island where all life has been eradicated, consumed, and possessed by a species beyond imagination. Before they can report their discovery, a mysterious agency attacks the group, killing them all, save one: an entomologist, an expert on venomous creatures, Professor Ken Matsui from Cornell University. Strangest of all, this inexplicable threat traces back to a terrifying secret buried a century ago beneath the National Mall: a cache of bones preserved in amber..."--

As data hiding detection and forensic techniques have matured, people are creating more advanced stealth methods for spying, corporate espionage, terrorism, and cyber warfare all to avoid detection. Data Hiding provides an exploration into the present day and next generation of tools and techniques used in covert communications, advanced malware methods and data concealment tactics. The hiding techniques outlined include the latest technologies including mobile devices, multimedia, virtualization and others. These concepts provide corporate, government and military personnel with the knowledge to investigate and defend against insider threats, spy techniques, espionage, advanced malware and secret communications. By understanding the plethora of threats, you will gain an understanding of the methods to defend oneself from these threats through detection, investigation, mitigation and prevention. Provides many real-world examples of data concealment on the latest technologies including iOS, Android, VMware, MacOS X, Linux and Windows 7 Dives deep into the less known approaches to data hiding, covert communications, and advanced malware Includes never before published information about next generation methods of data hiding Outlines a well-defined methodology for countering threats Looks ahead at future predictions for data hiding

A reliable and focused treatment of the emergent technology of fifth generation (5G) networks This book provides an understanding of the most recent developments in 5G, from both theoretical and industrial perspectives. It identifies and discusses technical challenges and recent results related to improving capacity and spectral efficiency on the radio interface side, and operations management on the core network side. It covers both existing network technologies and those currently in development in three major areas of 5G: spectrum extension, spatial spectrum utilization, and core network and network topology management. It explores new spectrum opportunities; the capability of radio access technology; and the operation of network infrastructure and heterogeneous QoE provisioning. 5G Networks: Fundamental Requirements, Enabling Technologies, and Operations Management is split into five sections: Physical Layer for 5G Radio Interface Technologies; Radio Access Technology for 5G Networks; 5G Network Interworking and Core Network Advancements; Vertical 5G Applications; and R&D and 5G Standardization. It starts by introducing emerging technologies in 5G software, hardware, and management aspects before moving on to cover waveform design for 5G and beyond; code design for multi-user MIMO; network slicing for 5G networks; machine type communication in the 5G era; provisioning unlicensed LAA interface for smart grid applications; moving toward all-IT 5G end-to-end infrastructure; and more. This valuable resource: Provides a comprehensive reference for all layers of 5G networks Focuses on fundamental issues in an easy language that is understandable by a wide audience Includes both beginner and advanced examples at the end of each section Features sections on major open research challenges 5G Networks: Fundamental Requirements, Enabling Technologies, and Operations Management is an excellent book for graduate students, academic researchers, and industry professionals, involved in 5G technology.

Data Hiding Exposing Concealed Data in Multimedia, Operating Systems, Mobile Devices and Network Protocols Newnes Biography -- Literary Criticism--> Conversations with William H. Gass captures the imagination and philosophical acumen of one of America's most important aestheticians, critical theorists, fiction writers, and essayists. From his first major novel, *Omensetter's Luck* (1966), to his numerous collections of essays and philosophical inquiries, to his controversial novel *The Tunnel* (1995), Gass (b. 1924) has proved himself a meticulous craftsman. Throughout these interviews, he reveals an aesthetic that combines ideas from sources as disparate as Ludwig Wittgenstein, Rainer Maria Rilke, Gertrude Stein, and Plato. The interviews make clear the unity behind Gass's views is by his own design. Conversations retrace his undergraduate years at Kenyon College and his subsequent philosophical investigation of metaphor at Cornell University. Gass has never strayed from his belief that metaphor is central and fundamental to thought and to aesthetics. In these interviews he reiterates time and again his belief that the ultimate understanding of the relationship of language to the world pivots on one's understanding of metaphor. In interviews, in profiles, and in his own essays, Gass does not hide from questions about his art and personal motivations, no matter how frequently they are asked, nor does he toy with his interviewers. Revealing how he never shies from an intellectual joust, this collection includes a rousing, contentious debate with John Gardner, fellow literary pundit and fiction writer. The distinction of Gass's prose is matched by the clarity and brilliance of the mind behind it. These talks allow an unobstructed view. Anyone interested in Gass's writing will delight in hearing the brutally honest voice of the mind that produced it. Theodore G. Ammon is chair of the philosophy department at Millsaps College in Jackson, Miss. His work has appeared in such publications as *Romance Notes*, *Arachne*, *College Mathematics*, and the *Journal of Aesthetic Education*.

While investigating the reappearance of the long-presumed-dead Wendell Jaffe, Kinsey Millhone uncovers some unpleasant truths about her own family in the process. By the author of *G Is for Gumshoe*. Reprint.

Over the last five years, widespread concern about the effects of social media on democracy has led to an explosion in research from different disciplines and corners of academia. This book is the first of its kind to take stock of this emerging multi-disciplinary field by synthesizing what we know, identifying what we do not know and obstacles to future research, and charting a course for the future inquiry. Chapters by leading scholars cover major topics – from disinformation to hate speech to political advertising – and situate recent developments in the context of key policy questions. In addition, the book canvasses existing reform proposals in order to address widely perceived threats that social media poses to democracy. This title is also available as Open Access on Cambridge Core.

An award-winning documentary photographer delivers a stunning visual history of the Silicon Valley technology boom, in which he was witness to key moments in the careers of Steve Jobs and more than seventy other leading innovators as they created today's digital world. An eye-opening chronicle of the Silicon Valley technology boom, capturing key moments in the careers of Steve Jobs

and more than seventy other leading innovators as they created today's digital world. In the spring of 1985, a technological revolution was under way in Silicon Valley, and documentary photographer Doug Menuez was there in search of a story—something big. At the same time, Steve Jobs was being forced out of his beloved Apple and starting over with a new company, NeXT Computer. His goal was to build a supercomputer with the power to transform education. Menuez had found his story: he proposed to photograph Jobs and his extraordinary team as they built this new computer, from conception to product launch. In an amazing act of trust, Jobs granted Menuez unlimited access to the company, and, for the next three years, Menuez was able to get on film the spirit and substance of innovation through the day-to-day actions of the world's top technology guru. From there, the project expanded to include the most trailblazing companies in Silicon Valley, all of which granted Menuez the same complete access that Jobs had. Menuez photographed behind the scenes with John Warnock at Adobe, John Sculley at Apple, Bill Gates at Microsoft, John Doerr at Kleiner Perkins, Bill Joy at Sun Microsystems, Gordon Moore and Andy Grove at Intel, Marc Andreessen at Netscape, and more than seventy other leading companies and innovators. It would be fifteen years before Menuez stopped taking pictures, just as the dotcom bubble burst. An extraordinary era was coming to its close. With his singular behind-the-scenes access to these notoriously insular companies, Menuez was present for moments of heartbreaking failure and unexpected success, moments that made history, and moments that revealed the everyday lives of the individuals who made it happen. This period of rapid, radical change would affect almost every aspect of our culture and our lives in ways both large and small and would also create more jobs and wealth than any other time in human history. And Doug Menuez was there, a witness to a revolution. In more than a hundred photographs and accompanying commentary, *Fearless Genius* captures the human face of innovation and shows what it takes to transform powerful ideas into reality.

The field of multimedia is unique in offering a rich and dynamic forum for researchers from "traditional" fields to collaborate and develop new solutions and knowledge that transcend the boundaries of individual disciplines. Despite the prolific research activities and outcomes, however, few efforts have been made to develop books that serve as an introduction to the rich spectrum of topics covered by this broad field. A few books are available that either focus on specific subfields or basic background in multimedia. Tutorial-style materials covering the active topics being pursued by the leading researchers at frontiers of the field are currently lacking. In 2015, ACM SIGMM, the special interest group on multimedia, launched a new initiative to address this void by selecting and inviting 12 rising-star speakers from different subfields of multimedia research to deliver plenary tutorial-style talks at the ACM Multimedia conference for 2015. Each speaker discussed the challenges and state-of-the-art developments of their prospective research areas in a general manner to the broad community. The covered topics were comprehensive, including multimedia content understanding, multimodal human-human and human-computer interaction, multimedia social media, and multimedia system architecture and deployment. Following the very positive responses to these talks, the speakers were invited to expand the content covered in their talks into chapters that can be used as reference material for researchers, students, and practitioners. Each chapter discusses the problems, technical challenges, state-of-the-art approaches and performances, open issues, and promising direction for future work. Collectively, the chapters provide an excellent sampling of major topics addressed by the community as a whole. This book, capturing some of the outcomes of such efforts, is well positioned to fill the aforementioned needs in providing tutorial-style reference materials for frontier topics in multimedia. At the same time, the speed and sophistication required of data processing have grown. In addition to simple queries, complex algorithms like machine learning and graph analysis are becoming common. And in addition to batch processing, streaming analysis of real-time data is required to let organizations take timely action. Future computing platforms will need to not only scale out traditional workloads, but support these new applications too. This book, a revised version of the 2014 ACM Dissertation Award winning dissertation, proposes an architecture for cluster computing systems that can tackle emerging data processing workloads at scale. Whereas early cluster computing systems, like MapReduce, handled batch processing, our architecture also enables streaming and interactive queries, while keeping MapReduce's scalability and fault tolerance. And whereas most deployed systems only support simple one-pass computations (e.g., SQL queries), ours also extends to the multi-pass algorithms required for complex analytics like machine learning. Finally, unlike the specialized systems proposed for some of these workloads, our architecture allows these computations to be combined, enabling rich new applications that intermix, for example, streaming and batch processing. We achieve these results through a simple extension to MapReduce that adds primitives for data sharing, called Resilient Distributed Datasets (RDDs). We show that this is enough to capture a wide range of workloads. We implement RDDs in the open source Spark system, which we evaluate using synthetic and real workloads. Spark matches or exceeds the performance of specialized systems in many domains, while offering stronger fault tolerance properties and allowing these workloads to be combined. Finally, we examine the generality of RDDs from both a theoretical modeling perspective and a systems perspective. This version of the dissertation makes corrections throughout the text and adds a new section on the evolution of Apache Spark in industry since 2014. In addition, editing, formatting, and links for the references have been added.

Sociopath Solana Rojas uses a stolen identity as a private caregiver to gain access to her intended victims while endeavoring to outmaneuver private investigator Kinsey Millhone.

- Clear, concise and comprehensive view of IMS and Rich Communication Suite (RCS) for developers
- Shows how to use RCS to create innovative applications for rapid uptake by end-users
- Covers service and operator scenarios for the IMS architecture
- Explains IMS architecture and protocols, from an application developer's perspective

IMS Application Developer's Handbook gives a hands-on view of exactly what needs to be done by IMS application developers to develop an application and take it "live" on an operator's network. It offers practical guidance on building innovative applications using the features and capabilities of the IMS network, and shows how the rapidly changing development environment is impacting on the business models employed in the industry and how existing network solutions can be moved towards IMS. Elaborating on how IMS applies basic VoIP principles and techniques to realize a true multi-access, and multimedia network, this book ensures that developers know how to use IMS most effectively for applications. Written by established experts in the IMS core network and IMS service layer, with roots in ISDN and GSM, with experience from working at Ericsson, who have been active in standardisation and technology development and who have been involved in many customer projects for the implementation of fixed mobile converged IMS network and service. The authors of this book bring their in-depth and extensive knowledge in the organizations involved in the IMS standardization and its architecture. Clear, concise and comprehensive view of the IMS and Rich Communication Suite (RCS) for developers

Written by established experts in the IMS services layer, who have been involved in many customer projects for the implementation of fixed mobile converged IMS network and service

Covers potential service and operator scenarios for the IMS architecture; it is

significantly more than merely a description of the IMS standards

Implement Industrial-Strength Security on Any Linux Server In an age of mass surveillance, when advanced cyberwarfare weapons rapidly migrate into every hacker's toolkit, you can't rely on outdated security methods—especially if you're responsible for Internet-facing services. In *Linux® Hardening in Hostile Networks*, Kyle Rankin helps you to implement modern safeguards that provide maximum impact with minimum effort and to strip away old techniques that are no longer worth your time. Rankin provides clear, concise guidance on modern workstation, server, and network hardening, and explains how to harden specific services, such as web servers, email, DNS, and databases. Along the way, he demystifies technologies once viewed as too complex or mysterious but now essential to mainstream Linux security. He also includes a full chapter on effective incident response that both DevOps and SecOps can use to write their own incident response plan. Each chapter begins with techniques any sysadmin can use quickly to protect against entry-level hackers and presents intermediate and advanced techniques to safeguard against sophisticated and knowledgeable attackers, perhaps even state actors. Throughout, you learn what each technique does, how it works, what it does and doesn't protect against, and whether it would be useful in your environment. Apply core security techniques including 2FA and strong passwords Protect admin workstations via lock screens, disk encryption, BIOS passwords, and other methods Use the security-focused Tails distribution as a quick path to a hardened workstation Compartmentalize workstation tasks into VMs with varying levels of trust Harden servers with SSH, use apparmor and sudo to limit the damage attackers can do, and set up remote syslog servers to track their actions Establish secure VPNs with OpenVPN, and leverage SSH to tunnel traffic when VPNs can't be used Configure a software load balancer to terminate SSL/TLS connections and initiate new ones downstream Set up standalone Tor services and hidden Tor services and relays Secure Apache and Nginx web servers, and take full advantage of HTTPS Perform advanced web server hardening with HTTPS forward secrecy and ModSecurity web application firewalls Strengthen email security with SMTP relay authentication, SMTPS, SPF records, DKIM, and DMARC Harden DNS servers, deter their use in DDoS attacks, and fully implement DNSSEC Systematically protect databases via network access control, TLS traffic encryption, and encrypted data storage Respond to a compromised server, collect evidence, and prevent future attacks Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available.

Named one of the best books of 2017 by *The Guardian*, NPR, GQ, *The Economist*, Bookforum, Amazon, and Lit Hub **The** definitive account of what happened, why, and above all how it felt, when catastrophe hit Japan—by the Japan correspondent of *The Times* (London) and author of *People Who Eat Darkness* On March 11, 2011, a powerful earthquake sent a 120-foot-high tsunami smashing into the coast of northeast Japan. By the time the sea retreated, more than eighteen thousand people had been crushed, burned to death, or drowned. It was Japan's greatest single loss of life since the atomic bombing of Nagasaki. It set off a national crisis and the meltdown of a nuclear power plant. And even after the immediate emergency had abated, the trauma of the disaster continued to express itself in bizarre and mysterious ways. Richard Lloyd Parry, an award-winning foreign correspondent, lived through the earthquake in Tokyo and spent six years reporting from the disaster zone. There he encountered stories of ghosts and hauntings, and met a priest who exorcised the spirits of the dead. And he found himself drawn back again and again to a village that had suffered the greatest loss of all, a community tormented by unbearable mysteries of its own. What really happened to the local children as they waited in the schoolyard in the moments before the tsunami? Why did their teachers not evacuate them to safety? And why was the unbearable truth being so stubbornly covered up? *Ghosts of the Tsunami* is a soon-to-be classic intimate account of an epic tragedy, told through the accounts of those who lived through it. It tells the story of how a nation faced a catastrophe, and the struggle to find consolation in the ruins.

A poignant history of the cartoonists and illustrators from the Connecticut School For a period of about fifty years, right in the middle of the American Century, many of the the nation's top comic-strip cartoonists, gag cartoonists, and magazine illustrators lived within a stone's throw of one another in the southwestern corner of Connecticut—a bit of bohemia in the middle of those men in their gray flannel suits. Cullen Murphy's father, John Cullen Murphy, drew the wildly popular comic strips *Prince Valiant* and *Big Ben Bolt*, and was the heart of this artistic milieu. Comic strips and gag cartoons read by hundreds of millions were created in this tight-knit group—*Superman*, *Beetle Bailey*, *Snuffy Smith*, *Rip Kirby*, *Hagar the Horrible*, *Hi and Lois*, *Nancy*, *Sam & Silo*, *Amy*, *The Wizard of Id*, *The Heart of Juliet Jones*, *Family Circus*, *Joe Palooka*, and *The Lockhorns*, among others. Cartoonists and their art were a pop-cultural force in a way that few today remember. Anarchic and deeply creative, the cartoonists were independent spirits whose artistic talents had mainly been forged during service in World War II. Illustrated with never-before-seen photographs, cartoons, and drawings, *Cartoon County* brings the postwar American era alive, told through the relationship of a son to his father, an extraordinarily talented and generous man who had been trained by Norman Rockwell. *Cartoon County* gives us a glimpse into a very special community—and of an America that used to be.

William H. Gass, one of america's most brilliant and eclectic minds, examines literature, culture, writers, and the nature and uses of language and the written word.

Al Tompkins teaches students about broadcast journalism using a disarmingly simple truth—if you aim for the heart with the copy you write and the sound and video you capture, you will compel your viewers to keep watching. With humor, honesty, and directness, award-winning journalist and author Al Tompkins bottles his years of experience and insight in a new Third Edition that offers students the fundamentals they need to master journalism in today's constantly evolving media environment, with practical know-how they can immediately put to use in their careers. *Aim for the Heart* is as close as you can get to spending a week in one of Tompkins's training sessions that he has delivered in newsrooms around the world, from which students:

- Learn how to build compelling characters who connect with the audience
- Write inviting leads
- Get memorable soundbites
- See how to light, crop, frame, and edit compelling videos
- Learn how to leverage social media to engage audiences
- Gain critical thinking skills that move your story from telling the "what" to telling the "why"

ELEMENTARY LINEAR ALGEBRA's clear, careful, and concise presentation of material helps you fully understand how mathematics works. The author balances theory with examples, applications, and geometric intuition for a complete, step-by-step learning system. To engage you in the material, a new design highlights the relevance of the mathematics and makes the book easier to read. Data and applications reflect current statistics and examples, demonstrating the link between theory and practice. The companion website LarsonLinearAlgebra.com offers free access to multiple study tools and resources. CalcChat.com offers free step-by-step solutions to the odd-numbered exercises in the text.

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Profiles of famous scientists, from the great sixteenth-century Kepler to the discoverers of the Double Helix, are joined by essays and short fictions in a celebration of the contributions of the scientific enterprise to human experience

Cable television is arguably the dominant mass media technology in the U.S. today. *Blue Skies* traces its history in detail, depicting the

important events and people that shaped its development, from the precursors of cable TV in the 1920s and '30s to the first community antenna systems in the 1950s, and from the creation of the national satellite-distributed cable networks in the 1970s to the current incarnation of "info-structure" that dominates our lives. Author Patrick Parsons also considers the ways that economics, public perception, public policy, entrepreneurial personalities, the social construction of the possibilities of cable, and simple chance all influenced the development of cable TV. Since the 1960s, one of the pervasive visions of "cable" has been of a ubiquitous, flexible, interactive communications system capable of providing news, information, entertainment, diverse local programming, and even social services. That set of utopian hopes became known as the "Blue Sky" vision of cable television, from which the book takes its title. Thoroughly documented and carefully researched, yet lively, occasionally humorous, and consistently insightful, *Blue Skies* is the genealogy of our media society.

Computer and Communication Networks, Second Edition, explains the modern technologies of networking and communications, preparing you to analyze and simulate complex networks, and to design cost-effective networks for emerging requirements. Offering uniquely balanced coverage of basic and advanced topics, it teaches through case studies, realistic examples and exercises, and intuitive illustrations. Nader F. Mir establishes a solid foundation in basic networking concepts; TCP/IP schemes; wireless and LTE networks; Internet applications, such as Web and e-mail; and network security. Then, he delves into both network analysis and advanced networking protocols, VoIP, cloud-based multimedia networking, SDN, and virtualized networks. In this new edition, Mir provides updated, practical, scenario-based information that many networking books lack, offering a uniquely effective blend of theory and implementation. Drawing on extensive field experience, he presents many contemporary applications and covers key topics that other texts overlook, including P2P and voice/video networking, SDN, information-centric networking, and modern router/switch design. Students, researchers, and networking professionals will find up-to-date, thorough coverage of Packet switching Internet protocols (including IPv6) Networking devices Links and link interfaces LANs, WANs, and Internetworking Multicast routing, and protocols Wide area wireless networks and LTE Transport and end-to-end protocols Network applications and management Network security Network queues and delay analysis Advanced router/switch architecture QoS and scheduling Tunneling, VPNs, and MPLS All-optical networks, WDM, and GMPLS Cloud computing and network virtualization Software defined networking (SDN) VoIP signaling Media exchange and voice/video compression Distributed/cloud-based multimedia networks Mobile ad hoc networks Wireless sensor networks Key features include More than three hundred fifty figures that simplify complex topics Numerous algorithms that summarize key networking protocols and equations Up-to-date case studies illuminating concepts and theory Approximately four hundred exercises and examples honed over Mir's twenty years of teaching networking

Strings Attached is the story of a brilliant, but ferocious music teacher who came to be known as Mr K. A Ukrainian immigrant who survived an abusive childhood to become a noted resident and teacher, Mr K used music as a means of escape. The authors, who spent their childhoods in the late 60s and 70s, rehearsing and playing together as young musicians, bring the extraordinary character of Mr K to life - from his days as a forced Nazi labourer; to his home life as a husband to an invalid wife; to his heart-breaking search to find his missing daughter; to the terrifying challenges he hurtled from behind the music stand.

Master the art of container management utilizing the power of Kubernetes. About This Book This practical guide demystifies Kubernetes and ensures that your clusters are always available, scalable, and up to date Discover new features such as autoscaling, rolling updates, resource quotas, and cluster size Master the skills of designing and deploying large clusters on various cloud platforms Who This Book Is For The book is for system administrators and developers who have intermediate level of knowledge with Kubernetes and are now waiting to master its advanced features. You should also have basic networking knowledge. This advanced-level book provides a pathway to master Kubernetes. What You Will Learn Architect a robust Kubernetes cluster for long-time operation Discover the advantages of running Kubernetes on GCE, AWS, Azure, and bare metal See the identity model of Kubernetes and options for cluster federation Monitor and troubleshoot Kubernetes clusters and run a highly available Kubernetes Create and configure custom Kubernetes resources and use third-party resources in your automation workflows Discover the art of running complex stateful applications in your container environment Deliver applications as standard packages In Detail Kubernetes is an open source system to automate the deployment, scaling, and management of containerized applications. If you are running more than just a few containers or want automated management of your containers, you need Kubernetes. This book mainly focuses on the advanced management of Kubernetes clusters. It covers problems that arise when you start using container orchestration in production. We start by giving you an overview of the guiding principles in Kubernetes design and show you the best practises in the fields of security, high availability, and cluster federation. You will discover how to run complex stateful microservices on Kubernetes including advanced features as horizontal pod autoscaling, rolling updates, resource quotas, and persistent storage back ends. Using real-world use cases, we explain the options for network configuration and provides guidelines on how to set up, operate, and troubleshoot various Kubernetes networking plugins. Finally, we cover custom resource development and utilization in automation and maintenance workflows. By the end of this book, you'll know everything you need to know to go from intermediate to advanced level. Style and approach Delving into the design of the Kubernetes platform, the reader will be exposed to the advanced features and best practices of Kubernetes. This book will be an advanced level book which will provide a pathway to master Kubernetes

This book constitutes the refereed proceedings of the First International Workshop on Cyber-Physical Security for Critical Infrastructures Protection, CPS4CIP 2020, which was organized in conjunction with the European Symposium on Research in Computer Security, ESORICS 2020, and held online on September 2020. The 14 full papers presented in this volume were carefully reviewed and selected from 24 submissions. They were organized in topical sections named: security threat intelligence; data anomaly detection: predict and prevent; computer vision and dataset for security; security management and governance; and impact propagation and power traffic analysis. The book contains 6 chapters which are available open access under a CC-BY license.

Brings together the author's reflections on literature, philosophy and the theory of language in pieces that examine a diversity of ideas and writers, including Emerson, Joyce, Dickens, and Pound

How can huge populations be fed healthily, equitably and affordably while maintaining the ecosystems on which life depends? The evidence of diet's impact on public health and the environment has grown in recent decades, yet changing food supply, consumer habits and economic aspirations proves hard. This book explores what is meant by sustainable diets and why this has to be the goal for the Anthropocene, the current era in which human activities are driving the mismatch of humans and the planet. Food production and consumption are key drivers of transitions already underway, yet policy makers hesitate to reshape public eating habits and tackle the unsustainability of the global food system. The authors propose a multi-criteria approach to sustainable diets, giving equal weight to nutrition and public health, the environment, socio-cultural issues, food quality, economics and governance. This six-pronged approach to sustainable diets brings order and rationality to what either is seen as too complex to handle or is addressed simplistically and ineffectually. The book provides a major overview of this vibrant issue of interdisciplinary and public interest. It outlines the reasons for concern and how actors throughout the food system (governments, producers, civil society and consumers) must engage with (un)sustainable diets.

A stunning collection of essays using music as a vantage point through which to examine and interrogate the world we live in, culturally and politically.

"An excellent book for those who are interested in learning the current status of research and development . . . [and] who want

toget a comprehensive overview of the currentstate-of-the-art." —E-Streams This book provides up-to-date information on research anddevelopment in the rapidly growing area of networks based on themulti-hop ad hoc networking paradigm. It reviews all classes ofnetworks that have successfully adopted this paradigm, pointing out how they penetrated the mass market and sparked breakthroughresearch. Covering both physical issues and applications, Mobile Ad HocNetworking: Cutting Edge Directions offers useful tools forprofessionals and researchers in diverse areas wishing to learn about the latest trends in sensor, actuator, and robotnetworking, mesh networks, delay tolerant and opportunisticnetworking, and vehicular networks. Chapter coverage includes: Multihop ad hoc networking Enabling technologies and standards for mobile multihopwireless networking Resource optimization in multiradio multichannel wireless meshnetworks QoS in mesh networks Routing and data dissemination in opportunistic networks Task farming in crowd computing Mobility models, topology, and simulations in VANET MAC protocols for VANET Wireless sensor networks with energy harvesting nodes Robot-assisted wireless sensor networks: recent applicationsand future challenges Advances in underwater acoustic networking Security in wireless ad hoc networks Mobile Ad Hoc Networking will appeal to researchers,developers, and students interested in computer science, electricalengineering, and telecommunications.

The Amazonian Ethnobotanical Dictionary presents an exciting new rainforest book, designed and conceived in the rainforest and dedicated to its preservation. The book contains concise accounts of the various uses to which prominent Amazonian plants are put by the local rainforest inhabitants. Although emphasis is placed on plant foods and forest medicines, there is also commentary on other relevant applications, including natural artifacts, house construction, natural pesticides, and ornamental and fodder plants. More than 1,000 species are covered and over 200 illustrated. An index to Spanish and English names leads to the scientific name, and the index to plants provides its medicinal application. There are even suggestions on how to eat palm grubs and how to make an Amazonian salad dressing. All royalties from the book are donated to the Amazonian Center for Environmental Education and Research (ACEER) in order to continue its preservation of one of the world's most diverse forests.

Going beyond classic networking principles and architectures for better wireless performance Written by authors with vast experience in academia and industry, Wireless Mesh Networks provides its readers with a thorough overview and in-depth understanding of the state-of-the-art in wireless mesh networking. It offers guidance on how to develop new ideas to advance this technology, and how to support emerging applications and services. The contents of the book follow the TCP/IP protocol stack, starting from the physical layer. Functionalities and existing protocols and algorithms for each protocol layer are covered in depth. The book is written in an accessible textbook style, and contains supporting materials such as problems and exercises to assist learning. Key Features: Presents an in-depth explanation of recent advances and open research issues in wireless mesh networking, and offers concrete and comprehensive material to guide deployment and product development Describes system architectures and applications of wireless mesh networks (WMNs), and discusses the critical factors influencing protocol design Explores theoretical network capacity and the state-of-the-art protocols related to WMNs Surveys standards that have been specified and standard drafts that are being specified for WMNs, in particular the latest standardization results in IEEE 802.11s, 802.15.5, 802.16 mesh mode, and 802.16 relay mode Includes an accompanying website with PPT-slides, further reading, tutorial material, exercises, and solutions Advanced students on networking, computer science, and electrical engineering courses will find Wireless Mesh Networks an essential read. It will also be of interest to wireless networking academics, researchers, and engineers at universities and in industry.

Modern critical infrastructures comprise of many interconnected cyber and physical assets, and as such are large scale cyber-physical systems. Hence, the conventional approach of securing these infrastructures by addressing cyber security and physical security separately is no longer effective. Rather more integrated approaches that address the security of cyber and physical assets at the same time are required. This book presents integrated (i.e. cyber and physical) security approaches and technologies for the critical infrastructures that underpin our societies. Specifically, it introduces advanced techniques for threat detection, risk assessment and security information sharing, based on leading edge technologies like machine learning, security knowledge modelling, IoT security and distributed ledger infrastructures. Likewise, it prescribes how established security technologies like Security Information and Event Management (SIEM), pen-testing, vulnerability assessment and security data analytics can be used in the context of integrated Critical Infrastructure Protection. The novel methods and techniques of the book are exemplified in case studies involving critical infrastructures in four industrial sectors, namely finance, healthcare, energy and communications. The peculiarities of critical infrastructure protection in each one of these sectors is discussed and addressed based on sector-specific solutions. The advent of the fourth industrial revolution (Industry 4.0) is expected to increase the cyber-physical nature of critical infrastructures as well as their interconnection in the scope of sectorial and cross-sector value chains. Therefore, the demand for solutions that foster the interplay between cyber and physical security, and enable Cyber-Physical Threat Intelligence is likely to explode. In this book, we have shed light on the structure of such integrated security systems, as well as on the technologies that will underpin their operation. We hope that Security and Critical Infrastructure Protection stakeholders will find the book useful when planning their future security strategies.

Van Jones, Al Gore, Elizabeth Kolbert, Naomi Klein, and other essential voices on global warming, from its 19th-century discovery to the present, in a volume edited by Bill McKibben, our most widely respected environmental writer With the rise of extreme weather events worldwide--witness the devastation wrought by Hurricanes Sandy, Irene, and Katrina, and the sustained drought across the American West--global warming has become increasingly difficult to deny. What is happening to our planet? And what can we do about it? The Global Warming Reader provides more than thirty-five answers to these burning questions, from more than one hundred years of engagement with the topic. Here is Elizabeth Kolbert's groundbreaking essay "The Darkening Sea," Michael Crichton's skeptical view of climate change, George Monbiot's biting indictment of those who are really using up the planet's resources, NASA scientist James Hansen's testimony before the U.S. Congress, and clarion calls for action by Al Gore, Arundhati Roy, Naomi Klein, Van Jones, and many others. The Global Warming Reader is a comprehensive resource, expertly edited by someone who lives and breathes this defining issue of our time.

Understand the theoretical principles, key technologies and applications of UDNs with this authoritative survey. Theory is explained in a clear, step-by-step manner, and recent advances and open research challenges in UDN physical layer design, resource allocation and network management are described, with examples, in the context of B5G and 6G standardization. Topics covered include NOMA-based physical layer design, physical layer security. Interference management, 3D base station deployment, software defined UDNs, wireless edge caching in UDNs, UDN-based UAVs and field trials and tests. A perfect resource for graduate students, researchers and professionals who need to get up to speed on the state of the art and future

opportunities in UDNs.

Teaching Online: A Practical Guide is a practical, concise guide for educators teaching online. This updated edition has been fully revamped and reflects important changes that have occurred since the second edition's publication. A leader in the online field, this best-selling resource maintains its reader friendly tone and offers exceptional practical advice, new teaching examples, faculty interviews, and an updated resource section. New to this edition: new chapter on how faculty and instructional designers can work collaboratively expanded chapter on Open Educational Resources, copyright, and intellectual property more international relevance, with global examples and interviews with faculty in a wide variety of regions new interactive Companion Website that invites readers to post questions to the author, offers real-life case studies submitted by users, and includes an updated, online version of the resource section. Focusing on the "how" and "whys" of implementation rather than theory, this text is a must-have resource for anyone teaching online or for students enrolled in Distance Learning and Educational Technology Masters Programs. A controversial, revisionist approach to autoimmune and allergic disorders considers the perspective that the human immune system has been disabled by twentieth-century hygiene and medical practices.

This book presents comprehensive coverage of current and emerging multiple access, random access, and waveform design techniques for 5G wireless networks and beyond. A definitive reference for researchers in these fields, the book describes recent research from academia, industry, and standardization bodies. The book is an all-encompassing treatment of these areas addressing orthogonal multiple access and waveform design, non-orthogonal multiple access (NOMA) via power, code, and other domains, and orthogonal, non-orthogonal, and grant-free random access. The book builds its foundations on state of the art research papers, measurements, and experimental results from a variety of sources.

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