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Application of Next Generation Sequencing (NGS) in Infection Prevention Smart and Sustainable Engineering for Next Generation Applications Innovative Research and Applications in Next-Generation High Performance Computing Application of Compact Heat Exchangers For Combined Cycle Driven Efficiency In Next Generation Nuclear Power Plants Database Systems for Next-Generation Applications Principles, Systems and Applications of IP Telecommunications. Services and Security for Next Generation Networks The Business Blockchain Rational Design of Next-generation Nanomaterials and Nanodevices for Water Applications Multimodal Analytics for Next-Generation Big Data Technologies and Applications Applications of Next Generation Sequencing (NGS) Technologies to Decipher the Oral Microbiome in Systemic Health and Disease Next-Generation Batteries and Fuel Cells for Commercial, Military, and Space Applications The application of organometallic materials to next-generation microelectronic patterning Job Seekers, Graduates! Stand Out and Win the Race to Your Next Job: A Complete Guide to the Job Application and Interview Process with Practical Advi IoT, AI, and Blockchain for .NET Application of the SOSTAC model to the marketing strategy used by NEXT PLC in Romania Application of Next Generation Sequencing (NGS) and CRISPR-Cas Systems in The Diagnosis of Infectious Diseases Applications of Next Generation Biosurfactants in the Food Sector Conjugated Polymers for Next-Generation Applications, Volume 1 The Open Mobile Alliance Conjugated Polymers for Next-Generation Applications, Volume 2 Application of next-generation sequencing for cancer drug repositioning Optical Computer Architectures Clinical Applications for Next-Generation Sequencing Next Generation of Data-Mining Applications Next Deploying Next Generation Multicast-enabled Applications Application of Next Generation Sequencing to

Aid in Effective Diagnosis of Familial Hypercholesterolaemia NEXT GENERATION QUALITY CONTROL: A MODEL-BASED APPROACH WITH APPLICATIONS TO AUTOMOTIVE PAINTING PROCESS (NEURAL NETWORK, TIME SERIES, QUALITY CONTROL). Real-World Next.js Next Generation Wireless Applications Build Applications with Meteor Nanocomposites as Next-Generation Optical Materials Next-Generation Antennas A Treatise on the Law and Practice Relating to Infants Application Developer (Emcapd) Secrets to Acing the Exam and Successful Finding and Landing Your Next Application Developer (Emcapd) Certified Job Enterprise Application Integration Check Point Next Generation with Application Intelligence Security Administration A Framework for Improving the Performance of Application Servers in Next Generation Networks Reports of State Trials Application of Next Generation Sequencing in the Characterisation of Variants Causing Haemoglobinopathies

These are the proceedings of IPTComm 2008 - the Second Conference on Principles, Systems and Applications of IP Telecommunications - held in Heidelberg, Germany, July 1-2, 2008. The scope of the conference included recent advances in the domains of convergent networks, VoIP security and multimedia service environments for next generation networks. The conference attracted 56 submissions, of which the Program Committee selected 16 papers for publication. The review process followed strict standards: each paper received at least three reviews. We would like to thank all Program Committee members and external reviewers for their contribution to the review process. The conference attracted attendees from academia and industry. Its excellence is reflected in the quality of the contributed papers and invited talks. Additional industry talks and applied demonstrations

assured a synergy between academic and applied research. We would also like to acknowledge and thank our sponsors, many of whom supported the conference generously: NEC, AT&T, Codenomicon, IPTEGO, EADS, Cellcrypt, MuDynamics, SIP Forum and EURESCOM. Finally, we would like to thank all the researchers and authors from all over the world who submitted their work to the IPTComm 2008 conference.

Conjugated Polymers for Next-Generation Applications, Volume One: Synthesis, Properties and Optoelectrochemical Devices describes the synthesis and characterization of varied conjugated polymeric materials and their key applications, including active electrode materials for electrochemical capacitors and lithium-ion batteries, along with new ideas of functional materials for next-generation high-energy batteries, a discussion of common design procedures, and the pros and cons of conjugated polymers for certain applications. The book's emphasis lies in the underlying electronic properties of conjugated polymers, their characterization and analysis, and the evaluation of their effectiveness for utilization in energy and electronics applications. This book is ideal for researchers and practitioners in the area of materials science, chemistry and chemical engineering. Provides an overview of the synthesis and functionalization of conjugated polymers and their composites

Reviews important photovoltaics applications of conjugated polymeric materials, including their use in energy storage, batteries and optoelectronic devices Discusses conjugated polymers and their application in electronics for sensing, bioelectronics, memory, and more

Covers the fundamentals of combined-cycle plants to provide background for understanding the progressive design approaches at the heart of the text Discusses the types of compact heat exchanger surfaces, suggesting novel designs that can be considered for optimal cost effectiveness and maximum energy production

Undertakes the thermal analysis of these compact heat exchangers throughout the life cycle, from the design perspective through operational and safety assurance stages This book describes the quest to create novel designs for compact heat exchangers in support of

emergent combined cycle nuclear plants. The text opens with a concise explanation of the fundamentals of combined cycles, describing their efficiency impacts on electrical power generation systems. It then covers the implementation of these principles in nuclear reactor power systems, focusing on the role of compact heat exchangers in the combined cycle loop and applying them to the challenges facing actual nuclear power systems. The various types of compact heat exchanger surfaces and designs are given thorough consideration before the author turns his attention to discussing current and projected reactor systems, and how the novel design of these compact heat exchangers can be applied to innovative designs, operation and safety analyses to optimize thermal efficiency. The book is written at an undergraduate level, but will be useful to practicing engineers and scientists as well. A practical overview of OMA specifications and how they enable mobile multimedia services & much more ...! The Open Mobile Alliance (OMA) is an industry forum, which develops open specifications to help in the creation of applications and services to be deployed over converged networks. The alliance is the leading industry forum for generating market-driven specifications for interoperable mobile service enablers that facilitate global user adoptions of mobile multimedia services. Members include traditional wireless industry segments, such as mobile operators (e.g. AT&T, China Mobile, Orange, Sprint Nextel, T-Mobile, Telefonica, Vodafone), equipment and mobile systems manufacturers (e.g. Alcatel-Lucent, Ericsson, Motorola, Nokia, Philips, Samsung, Siemens, Sony-Ericsson), and Information Technology vendors (e.g. BEA Systems, IBM, Microsoft, Oracle Corporation, Sun Microsystems and NEC). Since its formation in 2002, the OMA has made significant progress in areas such as push-to-talk over cellular, device management, presence and group management, and messaging. The Open Mobile Alliance: Provides a comprehensive overview of the service enablers published by the OMA, tying together all the different piece parts developed by the individual working groups Offers a thorough introduction to the OMA Service Environments (OSE) and the specification

process for enabling technologies. Discusses enablers for services such as gaming, IMS, Parlay, mobile broadcast and web services. Contains contributions from all stakeholders in the mobile application value chain. The Open Mobile Alliance Alliance is an invaluable resource for OMA members, product managers, network architects and planners, standards managers, standards engineers and IT professionals. Advanced Students and lecturers on mobile application development and standardization courses will also find this book of interest. "The success of OMA is due to its individual members' contributions, and this book is testament to their hard work. The individual members' efforts and the authors of this book are to be congratulated on their magnificent achievements." Mark Cataldo, Senior Advisor, Orange SA, OMA Technical Plenary Chairman

Optics is entering all phases of computer technology. By providing new research and ideas, it brings the reader up to date on how and why optics is likely to be used in next generation computers and at the same time explains the unique advantage optics enjoys over conventional electronics and why this trend will continue. Covered are basic optical concepts such as mathematical derivations, optical devices for optical computing, optical associative memories, optical interconnections, and optical logic. Also suggested are a number of research activities that are reinforcing the trend toward optics in computing, including neural networks, the software crisis, highly parallel computation, progress in new semiconductors, the decreasing cost of laser diodes, communication industry investments in fiber optics, and advances in optical devices. Exercises, solutions sets, and examples are provided. attempted whenever the resources are available. In the case that an analytical model is not feasible, a time series model for modeling a dynamic process can be tried. Finally, when knowledge about the process is so incomplete that the above two approaches fail, a neural network model may be applied. Check Point Next Generation with Application Intelligence Security Administration focuses on Check Point NG FP 4. FP 4, offers security professionals an astounding array of products that upgrade and enhance the security and communication features of Check Point NG.

Like Check Point NG Security Administration, this book provides readers with the perfect balance of the theories and concepts behind internet security, and the practical applications of Check Point NG FP 4. Readers can learn how to use all of these products to create a secure network with virtual private networking features. Security professionals will buy, read, and keep this book because it will cover all features of Check Point NG FP 4 like no other book will. Covers all products, upgrades, and enhancements contained in FP 4 including: SMART, SecurePlatform, SecureXL, ClusterXL, and Performance Pack Covers all objectives on Check Point's CCSA exam, and readers will be able to download a free exam simulator from syngress.com Check Point continues to dominate the Firewall space owning over 65% of the worldwide Firewall market. Syngress' book on the first version of Check Point NG continues to be the market leading Check Point book This volume is the first in a series which aims to contribute to the wider dissemination of the results of research and development in database systems for non-traditional applications and non-traditional machine organizations. It contains updated versions of selected papers from the First International Symposium on Database Systems for Advanced Applications. Contents: A Framework for the Parallel Evaluation of Recursive Queries in Deductive Databases (R-P Qi & W Bibel) Realization of Composite Relationship Views Utilizing Regular Expressions (H-Y Xu & Y Kambayashi) Seamless Interconnection in Federated Database Systems (D Fang & D McLeod) Case-Based Evolutionary World Model for Electronic Secretaries (K Kanasaki & T L Kunii) Design and Implementation of a Visual Query Language for Historical Databases (E Oomoto & K Tanaka) Intersection Operations in a Multi-Layered Spatial Data Model (D W Embley & G Nagy) Partial Match Retrieval Using Multiple-Key Hashing with Multiple File Copies (K Ramamohanarao et al.) Overview of Functional Disk System (M Kitsuregawa et al.) and other papers Readership: Computer scientists and engineers. "Cuts through the hype! Golding's compelling offers visionary, but practical insights. A "must have" reference treatment for all practitioners in the mobile innovation space."

—Jag Minhas, Telefónica O2 Europe Second edition of this best-selling guide to Wireless Applications: fully revised, updated and with brand new material! In Next Generation Wireless Applications, Second Edition, the author establishes a picture of the entire mobile application ecosystem, and explains how it all fits together. This edition builds upon the successes of the first edition by offering an up-to-date holistic guide to mobile application development, including an assessment of the applicability of new mobile applications, and an exploration into the developments in a number of areas such as Web 2.0, 3G, Mobile TV, J2ME (Java 2 Micro Edition) and many more. Key features of this second edition include: New introductory chapters on trends in mobile application, and on becoming an Operator. Two new chapters on Mobile 2.0 and IMS and Mobilizing Media and TV. Extra material on convergence, Web 2.0, AJAX (Asynchronous JavaScript and XML), HSDPA (High Speed Downlink Packet Access) and MBMS (Multimedia Broadcast Multicast Service), WiMAX (Worldwide Interoperability for Microwave Access) and WiFi. Best practice on how to present to, sell to and work with operators. More insights, anecdotes and sidebars reflecting the author's extensive experience in the industry. Next Generation Wireless Applications will prove essential reading for professionals in mobile operator and mobile application developing companies, web developers, and developer community managers. Media companies, general managers, business analysts, students, business consultants, and Java developers will also find this book captivating. "If you want to understand the future of mobile applications and services, their potential impact and the growth opportunities this is the perfect starting point." —Martin Smith, Head of Content Innovation & Applications, T-Mobile Despite the fact that nanotechnology has been present for a few decades, there is a big gap between how nanotechnology is perceived and what nanotechnology can truly offer in all sectors of water. The question to be answered is 'what more can we expect from nanotechnology' in the water field? The rational nano-design starts with well-defined problem definitions, necessitates

interdisciplinary approaches, involves 'think-outside-the-box', and represents the future growth point of environmental nanotechnology. However, it is still largely new to the educated public and even scientists and engineers in water fields. Therefore, it is the purpose of this book to promote the concept of rational nano-design and to demonstrate its creativity, innovation, and excitement. This book presents a series of carefully selected rationally designed nano-materials/devices/surfaces, which represent drastically different, ground-breaking, and eye-opening approaches to conventional problems to embody the concept of nano-design and to illustrate its remarkable potential to change the face of the research in water industry in the future. Each of the book contributors is world-renowned expert in the burgeoning field of rational nano-design for applications. Rational Design of Next-generation Nanomaterials and Nanodevices for Water Applications is intended for undergraduates, graduates, scientists and professionals in the fields of environmental science, material science, chemistry, and chemistry engineering. It provides coherent and good material for teaching, research, and professional reference. Contents: Introduction to rational nano-design for water applications; Rational design of smart materials/surfaces with switchable oil wettability for sustainable oil-spill cleanup; Rational design of three-dimensional macroscale porous electrodes for bioelectrochemical systems; Design of (photo)electrochemical active membranes as next-generation filtration devices; Hierarchical materials as a design concept for multifunctional membranes; Rational design of functional nanoporous materials to confine water pollutant in controlled nano-space; A next-generation forward osmosis draw solution design; Rational design of magnetic permanently-confined micelle arrays (Mag-PCMA)s materials for sustainable water and soil remediation; Rational design of an all-in-one lab-on-chip device for direct seawater desalination; Design of micro-sized microbial fuel cells as miniature energy harvesters Author: Peng Wang, King Abdullah University of Science and Technology Learn to utilize today's hottest EAI technologies to ensure interoperability across your organization What exactly is enterprise

application integration (EAI)? What makes this \$300 million market so hot that it's expected to grow to \$6.5 billion in the next two years? How do you apply it in the real world? Whether you're an IT professional or systems architect, business manager or software developer, if you're looking into EAI as a solution for unifying applications and systems across the enterprise, then the answers are in this book. You'll find a complete and unbiased survey of the different technologies, architectures, and approaches available for EAI implementations, including pros and cons, clear explanations of all concepts, and first-rate guidance on how to choose the best EAI strategy for your company. The authors draw on their pioneering work with early implementations to show you how to:

- Define your specific integration problem in a useful form that enables a real solution
- Develop your own EAI architecture and ensure interoperability of legacy, stovepipe, COTS, client-server and modern technology applications
- Choose the best among messaging architecture, object architecture, and transaction architecture
- Work with the best implementation technologies, including Microsoft's COM+, the OMG's CORBA, and Sun's EJB
- Utilize the proven Secure Application Integration Methodology (SAIM)

Wiley Tech Briefs Focused on the needs of the corporate IT and business manager, the Tech Briefs series provides in-depth information on a new or emerging technology, solutions, and vendor offerings available in the marketplace. With their accessible approach, these books will help you get quickly up-to-speed on a topic so that you can effectively compete, grow, and better serve your customers. Antenna design and wireless communication has recently witnessed their fastest growth period ever in history, and these trends are likely to continue for the foreseeable future. Due to recent advances in industrial applications as well as antenna, wireless communication, and 5G technology, we are witnessing a variety of developing and expanding new technologies. Compact and low-cost antennas are increasing the demand for ultra-wide bandwidth in next-generation (5G) wireless communication systems and the Internet of Things (IoT). Enabling the next generation of high-frequency communication, various methods have been

introduced to achieve reliable high data rate communication links and enhance the directivity of planar antennas. 5G technology can be used in many applications, such as in smart city applications and in smartphones. This technology can satisfy the fast rise in user and traffic capacity in mobile broadband communications. Therefore, different planar antennas with intelligent beamforming capability play an important role in these areas. The purpose of this book is to present the advanced technology, developments, and challenges in antennas for next-generation antenna communication systems. This book covers advances in next-generation antenna design and application domain in all related areas. It is a detailed overview of cutting-edge developments and other emerging topics and their applications in all areas of engineering that have achieved great accuracy and performance with the help of the advancement and challenges in next generation antennas. Whether a refresher for veteran engineers hoping to stay abreast of the latest advances and developing concepts in the field, an introduction to new engineers moving into the field, or a textbook for students and faculty, this groundbreaking new volume is a must-have for any library. Learn how to use Next.js for building web apps without compromising performance, user experience, and developer happiness

Key Features

- Develop scalable web applications using Next.js
- Use Next.js as a frontend for existing backends and e-commerce websites and understand how to implement it with any headless CMS
- Deploy Next.js on different platforms, such as Vercel, DigitalOcean, and AWS, or on your own server

Book Description Next.js is a scalable and high-performance React.js framework for modern web development and provides a large set of features, such as hybrid rendering, route prefetching, automatic image optimization, and internationalization, out of the box. If you are looking to create a blog, an e-commerce website, or a simple website, this book will show you how you can use the multipurpose Next.js framework to create an impressive user experience. Starting with the basics of Next.js, the book demonstrates how the framework can help you reach your development goals. You'll realize how versatile Next.js is as you build real-world

applications with step-by-step explanations. This Next.js book will guide you in choosing the right rendering methodology for your website, securing it, and deploying it to different providers, all while focusing on performance and developer happiness. By the end of the book, you'll be able to design, build, and deploy modern architectures using Next.js with any headless CMS or data source. What you will learn

Get up to speed with Next.js essentials and learn how to build apps quickly

Understand how to create scalable Next.js architectures

Choose between different rendering strategies, such as client-side rendering (CSR), static site generation (SSG), server-side rendering (SSR), and incremental static regeneration (ISR)

Write unit tests and integration tests in your Next.js application

Discover the powerful routing system and Next.js' built-in components

Design and build modern architectures with Next.js using GraphCMS or any headless CMS

Who this book is for

This book is for web developers who want to improve their React skills by building scalable and maintainable full-stack applications using the modern Next.js web framework.

Intermediate-level knowledge of ES6+, React, Node.js, and REST is assumed.

Conjugated Polymers for Next-Generation Applications, Volume Two: Energy Storage Devices describes the synthesis and characterization of varied conjugated polymeric materials and their key applications, including active electrode materials for electrochemical capacitors and lithium-ion batteries, along with new ideas of functional materials for next-generation high-energy batteries, a discussion of common design procedures, and the pros and cons of conjugated polymers for certain applications. The book's emphasis lies in the underlying electronic properties of conjugated polymers, their characterization and analysis, and the evaluation of their effectiveness for utilization in energy and electronics applications. This book is ideal for researchers and practitioners in the area of materials science, chemistry and chemical engineering. Provides an overview of the synthesis and functionalization of conjugated polymers and their composites

Reviews important photovoltaics applications of conjugated polymeric materials, including their use in energy storage, batteries and

optoelectronic devices

Discusses conjugated polymers and their application in electronics for sensing, bioelectronics, memory, and more

In a career spanning 42 years, I have worked for 23 different organisations inc. manufacturers, distributors, sales, service and training companies. I consider myself expert in the job application and interview process, securing many roles across a diverse range of industries. My aim is to pass on practical advice and top tips learned along the way and help individuals tackle the jobs market with confidence. Learn how to;

1. Plan your job application.
2. Create a professional CV, Cover Letter and Brag File.
3. Prepare for the toughest interview - core values and behaviours employers look for. Grow your Skills and Achieve your Goals!

This book reports on advanced theories and methods in two related engineering fields: electrical and electronic engineering, and communications engineering and computing. It highlights areas of global and growing importance, such as renewable energy, power systems, mobile communications, security and the Internet of Things (IoT). The contributions cover a number of current research issues, including smart grids, photovoltaic systems, wireless power transfer, signal processing, 4G and 5G technologies, IoT applications, mobile cloud computing and many more. Based on the proceedings of the Second International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering (ELECOM 2018), held in Mauritius from November 28 to 30, 2018, the book provides graduate students, researchers and professionals with a snapshot of the state-of-the-art and a source of new ideas for future research and collaborations. The definitive pioneering blueprint covering the what, why and how of the blockchain. Blockchains are new technology layers that rewire the Internet and threaten to side-step older legacy constructs and centrally served businesses. At its core, a blockchain injects trust into the network, cutting off some intermediaries from serving that function and creatively disrupting how they operate. Metaphorically, blockchains are the ultimate non-stop computers. Once launched, they never go down, and offer an incredible amount of resiliency, making them dependable and

attractive for running a new generation of decentralized services and software applications. The Business Blockchain charts new territory in advancing our understanding of the blockchain by unpacking its elements like no other before. William Mougayar anticipates a future that consists of thousands, if not millions of blockchains that will enable not only frictionless value exchange, but also a new flow of value, redefining roles, relationships, power and governance. In this book, Mougayar makes two other strategic assertions. First, the blockchain has polymorphic characteristics; its application will result in a multiplicity of effects. Second, we shouldn't ask ourselves what problems the blockchain solves, because that gives us a narrow view on its potential. Rather, we should imagine new opportunities, and tackle even more ambitious problems that cross organizational, regulatory and mental boundaries. Drawing on 34 years of technology industry experience as an executive, analyst, consultant, entrepreneur, startup mentor, author, blogger, educator, thought leader and investor, William Mougayar describes a future that is influenced by fundamental shifts brought by blockchain technology as the catalyst for change. William Mougayar has been described as the most sophisticated blockchain business thinker. He is a blockchain industry insider whose work has already shaped and influenced the understanding of blockchain for people around the world, via his generous blogging and rigorous research insights. He is a direct participant in the crypto-technology market, working alongside startups, entrepreneurs, pioneers, leaders, innovators, creators, enterprise executives and practitioners; in addition to being an investor, advisor, and board member in some of the leading organizations in this space, such as the Ethereum Foundation, OpenBazaar and Coin Center. Just as the Internet created new possibilities that we didn't foresee in its early years, the blockchain will give rise to new business models and ideas that may still be invisible. Following an engaging Foreword by Vitalik Buterin, this book is organized along these 7 chapters: 1. What is the Blockchain? 2. How Blockchain Trust Infiltrates 3. Obstacles, Challenges & Mental Blocks 4. Blockchain in Financial Services 5. Lighthouse

Industries & New Intermediaries 6. Implementing Blockchain Technology 7. Decentralization as the Way Forward The Business Blockchain is an invitation for technologists to better understand the business potential of the blockchain, and for business minded people to grasp the many facets of blockchain technology. This book teaches you how to think about the blockchain. Create applications using Industry 4.0. Discover how artificial intelligence (AI) and machine learning (ML) capabilities can be enhanced using the Internet of things (IoT) and secured using Blockchain, so your latest app can be not just smarter but also more connected and more secure than ever before. This book covers the latest easy-to-use APIs and services from Microsoft, including Azure IoT, Cognitive Services APIs, Blockchain as a Service (BaaS), and Machine Learning Studio. As you work through the book, you'll get hands-on experience building an example solution that uses all of these technologies—an IoT suite for a smart healthcare facility. Hosted on Azure and networked using Azure IoT, the solution includes centralized patient monitoring, using Cognitive Services APIs for face detection, recognition, and tracking. Blockchain is used to create trust-based security and inventory management. Machine learning is used to create predictive solutions to proactively improve quality of life. By the end of the book, you'll be confident creating richer and smarter applications using these technologies. What You'll Learn Know the technologies underpinning Industry 4.0 and AI 2.0 Develop real-time solutions using IoT in Azure Bring the smart capabilities of AI 2.0 into your application using a simple API call Host and manage your solution on Azure Understand Blockchain as a Service Capture and analyze data on the fly Make predictions using existing data Who This Book Is For Novice and intermediate .NET developers and architects who want to learn what it takes to create a modern or next-generation application Distilling complex theoretical physical concepts into an understandable technical framework, Next-Generation Batteries and Fuel Cells for Commercial, Military, and Space Applications describes primary and secondary (rechargeable) batteries for various commercial, military,

spacecraft, and satellite applications for covert communications, surveillan Project Report from the year 2018 in the subject Business economics - Marketing, Corporate Communication, CRM, Market Research, Social Media, grade: 5.50, Anglia Ruskin University, language: English, abstract: The SOSTAC analysis of the company and its chosen international market of Romania is necessary so as establish its current performance, based on user experiences review and mostly on the process of reporting and monitoring. Important for the SOSTAC are questions regarding present and desirable position for the company, as well as tactics details and action plans. Simply put, these are the responsibilities and structures, the processes and systems, the internal resources and skills that needs to be taken into account. Additionally, the segments, target markets, objectives and positioning play an important role in the establishment of SOSTAC structure. Deploying Next Generation Multicast-Enabled Applications: Label Switched Multicast for MPLS VPNs, VPLS, and Wholesale Ethernet provides a comprehensive discussion of Multicast and MVPN standards—next-generation Multicast-based standards, Multicast Applications, and case studies with detailed configurations. Focusing on three vendors—Juniper, Cisco, and Alcatel-Lucent—the text features illustrations that contain configurations of JUNOS, TiMOS (Alcatel’s OS), or Cisco IOS, and each configuration is explained in great detail. Multiple- rather than single-vendor configurations were selected for the sake of diversity as well as to highlight the direction in which the overall industry is going rather than that of a specific vendor. Beginning with a discussion of the building blocks or basics of IP Multicast, the book then details applications and emerging trends, including vendor adoptions, as well as the future of Multicast. The book is written for engineers, technical managers, and visionaries engaged in the development of next-generation IP Multicast infrastructures. Offers contextualized case studies for illustrating deployment of the Next Generation Multicast technology Provides the background necessary to understand current generation multi-play applications and their service requirements Includes practical tips on various migration

options available for moving to the Next Generation framework from the legacy Applications of Next Generation Biosurfactants in the Food Sector provides detailed information on the sustainable approach to the utilization of biosurfactants as a next-generational green biotechnology to mitigate various problems encountered in the food industry. These biosurfactants help to reduce risks such as food spoilage, food poisoning, and post-harvest losses of fruits, vegetable, grains, tubers, cereals and pulses. This book will benefit academics, R&D professionals, and postgrad students in the food science and related fields as they explore recent trends in the application of these green biosurfactants and the many uses they can provide. Provides examples of mathematical modeling, metabolomics, bioinformatics, metabolic engineering, systems biology, and computer technology for solving real-life food challenges using biosurfactants Presents biosurfactants as an innovative, green, biotechnological solution to resolving food safety issues and improving human health Includes applications of biosurfactants for the prevention of mycotoxins and as a biodegradable material with a wide variety of uses This edited book will serve as a source of reference for technologies and applications for multimodality data analytics in big data environments. After an introduction, the editors organize the book into four main parts on sentiment, affect and emotion analytics for big multimodal data; unsupervised learning strategies for big multimodal data; supervised learning strategies for big multimodal data; and multimodal big data processing and applications. The book will be of value to researchers, professionals and students in engineering and computer science, particularly those engaged with image and speech processing, multimodal information processing, data science, and artificial intelligence. Build a variety of cross-platform applications with the world's most complete full-stack JavaScript framework— Meteor About This Book Develop a set of real-world applications each exploring different features of Meteor Make your app more appealing by adding reactivity and responsiveness to it Work with the most powerful feature of Meteor—the “full stack reactivity”—through building real-time

applications with many third party libraries Who This Book Is For If you are a developer who is looking forward to taking your application development skills with Meteor to next level by getting your hands-on different projects, this book is for you. What You Will Learn See how Meteor fits in the modern web application development by using its reactive data system Make your front-end behave consistently across environments by implementing a predictable state container with Redux Get familiar with React and overview of Angular 2 Add a map to your application with a real-time geolocation Plugin into Meteor social media APIs like Twitter's streaming and Facebook's Messenger Add search functionality from scratch to your existing app and data Add responsiveness with Bootstrap 4 and Google's Material Design using Less and Sass Distribute your data across machines and data centers by adding Apache Cassandra to your existing stack. Learn how to scale your microservices with the high performant language neutral framework gRPC. Learn how to query multiple data sources using GraphQL. In Detail This book starts with the basic installation and overview of the main components in Meteor. You'll get hands-on multiple versatile applications covering a wide range of topics from adding a front-end views with the hottest rendering technology React to implementing a microservices oriented architecture.All the code is written with ES6/7 which is the latest significantly improved JavaScript language. We'll also look at real-time data streaming, server to server data exchange, responsive styles on the front-end, full-text search functionality, and integration of many third-party libraries and APIs using npm. By the end of the book, you'll have the skills to quickly prototype and even launch your next app idea in a matter of days. Style and Approach This book takes an easy-to-follow project-based approach. Each project starts with the goal of what you will learn and an overview the technologies used. This book looks at advanced nanocomposites, introducing long-awaited concepts towards bridging the gap between nanostructured optical materials and next-generation imaging systems. It investigates nanocomposites as bulk optical materials and highlights the immense potential they hold for real-world optical elements and

systems, such as smartphone cameras. It covers the full spectrum of nanocomposite optical materials from their fundamental properties to analytical modeling and detailed application examples. This book also provides an in-depth discussion of the role these new materials play in the development of broadband flat optics - diffractive optical elements used for enhancing high-end broadband imaging systems. Written by an industry expert, this book seamlessly connects fundamental research and real-world applications. It is the ideal guide both for optical engineers working towards integrating new technologies, and researchers involved with fundamental research on optical materials. Clinical Applications for Next Generation Sequencing provides readers with an outstanding postgraduate resource to learn about the translational use of NGS in clinical environments. Rooted in both medical genetics and clinical medicine, the book fills the gap between state-of-the-art technology and evidence-based practice, providing an educational opportunity for users to advance patient care by transferring NGS to the needs of real-world patients. The book builds an interface between genetic laboratory staff and clinical health workers to not only improve communication, but also strengthen cooperation. Users will find valuable tactics they can use to build a systematic framework for understanding the role of NGS testing in both common and rare diseases and conditions, from prenatal care, like chromosomal abnormalities, up to advanced age problems like dementia. Fills the gap between state-of-the-art technology and evidence-based practice Provides an educational opportunity which advances patient care through the transfer of NGS to real-world patient assessment Promotes a practical tool that clinicians can apply directly to patient care Includes a systematic framework for understanding the role of NGS testing in many common and rare diseases Presents evidence regarding the important role of NGS in current diagnostic strategies Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 34. Chapters: Application bundle, Application Kit, Avadis Tevanian, Core Data, Display PostScript, Dock (OS X), Enterprise Objects

Framework, EXodus, Foundation Kit, GNUstep, GNUstepWeb, GNUstep Renaissance, Interface Builder, ISPW, Mach-O, Miller columns, Music Kit, NeXTCube, NeXTdimension, NeXTMail, NeXTstation, NeXTSTEP, NeXT Computer, NeXT Laser Printer, NeXT MegaPixel Display, NeXT RISC Workstation, NuBus, Objective-C, Open (process), Project Builder, Property list, Services menu, Shelf (computing), Steve Jobs, WorldWideWeb. * This book presents the next generation of data mining applications based on state-of-the-art methodologies and techniques for analyzing enormous quantities of raw data in high-dimension * Each chapter describes the data mining development process, results, and experiences with new data mining tools and techniques * Includes twenty-five novel and diverse contributions from experienced and well-respected data mining scientists and practitioners that describe their recent applications using state-of-the-art methods and algorithms Good solid advice and great strategies in preparing for and passing the Application Developer (EMCApD) exam, getting interviews and landing the Application Developer (EMCApD) job. If you have prepared for the Application Developer (EMCApD) exam - now is the moment to get this book and prepare for passing the exam and how to find and land a Application Developer (EMCApD) job, There is absolutely nothing that isn't thoroughly covered in the book. It is straightforward, and does an excellent job of explaining some complex topics. There is no reason to invest in any other materials to find and land a Application Developer (EMCApD) certified job. The plan is pretty simple, buy this book, read it, do the practice questions, get the job. This book figures out ways to boil down critical exam and job landing concepts into real world applications and scenarios. Which makes this book user-friendly, interactive, and valuable as a resource long after students pass the exam. People who teach Application Developer (EMCApD) classes for a living or for their companies understand the true value of this book. You certainly will too. To Prepare for the exam this book tells you:

- What you need to know about the Application Developer (EMCApD) Certification and exam
- Preparation Tips for passing the Application Developer (EMCApD) Certification Exam

Taking tests The book contains several suggestions on how preparing yourself for an interview. This is an aspect that many people underestimate, whilst having a well-written CV, a personal blog, and possibly a number of past projects is definitively important - there is much more to prepare for. It covers non-technical aspects (how to find a job, resume, behavioral etc.). A 'Must-study' before taking a Tech Interview. To Land the Job, it gives you the hands-on and how-to's insight on - Typical Application Developer (EMCApD) Careers - Finding Opportunities - the best places to find them - Writing Unbeatable Resumes and Cover Letters - Acing the Interview - What to Expect From Recruiters - How employers hunt for Job-hunters.... and More This book offers excellent, insightful advice for everyone from entry-level to senior professionals. None of the other such career guides compare with this one. It stands out because it: - Explains how the people doing the hiring think, so that you can win them over on paper and then in your interview - Is filled with useful work-sheets - Explains every step of the job-hunting process - from little-known ways for finding openings to getting ahead on the job This book covers everything. Whether you are trying to get your first Application Developer (EMCApD) Job or move up in the system, you will be glad you got this book. For any IT Professional who aspires to land a Application Developer (EMCApD) certified job at top tech companies, the key skills that are an absolute must have are having a firm grasp on Application Developer (EMCApD) This book is not only a compendium of most important topics for your Application Developer (EMCApD) exam and how to pass it, it also gives you an interviewer's perspective and it covers aspects like soft skills that most IT Professionals ignore or are unaware of, and this book certainly helps patch them. When should you get this book? Whether you are searching for a job or not, the answer is now. Next generation networks (NGNs) such as IP Multimedia Subsystem (IMS) are completely built on the Internet Protocol (IP) suite. This has made IP the de facto standard for data networking, voice over IP (VoIP), and media rich applications such as streaming multimedia, ringtones, multi-player gaming, and high-definition video conferencing for remote

interaction. A primary feature of such converged networks is that they use the same IP-based network for simultaneously delivering voice, video, and data. Such services are provided on application servers built using industry standard Advanced Telecom Computing Architecture (ATCA) based blade computing units with various flavors of commodity open source operating systems like Linux, xBSD, and OpenSolaris. However, real-time and latency sensitive applications such as streaming multimedia require that the entire network path of packet delivery from the originating server to the end host be properly and appropriately configured so as to avoid unnecessary delay and jitter in the data transfer mechanisms. With the ease of deployment comes the challenge of delivering such rich multimedia applications in NGNs since there exists no separate paths for voice and data as present in existing circuit-switched public switched telephone network (PSTN). Packet delivery in such converged architectures involves interaction between the storage disks, operating system (OS), network interface cards (NICs), and the various switches and routers--each of which is independently capable of introducing delay in the data transfer mechanism. In this dissertation, we focus on understanding and improving the performance of application servers present in high traffic content delivery networks (CDNs) and hoisting latency sensitive applications with heavy I/O requirements. We start by identifying an architectural framework for traffic characterization that is expected to provide insights about the composition and dynamics (e.g., average packet size and data rate, protocol composition) of network traffic present in CDNs. Once the nature and type of network traffic arriving at the NICs have been identified, we attempt to identify packet processing bottlenecks due to the interaction between the NICs, OS, and the underlying hardware. We propose a closed form queuing model that aims to understand the packet processing capabilities of the NICs based on the available computing resources. We have shown that there exist limits beyond which a computing unit cannot process packets without overloading the CPU. Since the performance of latency sensitive processes can be negatively impacted by delays of the storage

network and by the dynamics of the OS, we present solutions for prioritizing the reader processes and tweaking the pagedaemon in open source OS. Based on our implementation in the NetBSD kernel, we have observed an approximate 15%--20% improvement in the transactions per second (TPS) of latency sensitive applications. Finally, we believe that our framework and approach of identifying the basic components in network data transfer mechanisms are for most part generic and can be used for performance tuning and deploying application servers in NGNs with a variety of different services. High-performance computing (HPC) describes the use of connected computing units to perform complex tasks. It relies on parallelization techniques and algorithms to synchronize these disparate units in order to perform faster than a single processor could, alone. Used in industries from medicine and research to military and higher education, this method of computing allows for users to complete complex data-intensive tasks. This field has undergone many changes over the past decade, and will continue to grow in popularity in the coming years. Innovative Research Applications in Next-Generation High Performance Computing aims to address the future challenges, advances, and applications of HPC and related technologies. As the need for such processors increases, so does the importance of developing new ways to optimize the performance of these supercomputers. This timely publication provides comprehensive information for researchers, students in ICT, program developers, military and government organizations, and business professionals.

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