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Many companies, from startups  
to Fortune 500 companies  
alike, use Node.js to build  
performant backend services.  
And engineers love Node.js for  
its approachable API and  
familiar syntax. Backed by the

world's largest package repository, Node's enterprise foothold is only expected to grow. In this hands-on guide, author Thomas Hunter II proves that Node.js is just as capable as traditional enterprise platforms for building services that are observable, scalable, and resilient. Intermediate to advanced Node.js developers will find themselves integrating application code with a breadth of tooling from each layer of a modern service stack. Learn why running redundant copies of the same Node.js service is necessary Know which protocol to choose, depending on the situation Fine-tune your application containers for use in production Track down errors in a distributed setting to determine which service is at fault Simplify app code and increase performance by offloading work to a reverse proxy Build dashboards to monitor service health and throughput Find out why so many different tools are required when operating in an enterprise environment Beyond

simulation and algorithm development, many developers increasingly use MATLAB even for product deployment in computationally heavy fields. This often demands that MATLAB codes run faster by leveraging the distributed parallelism of Graphics Processing Units (GPUs). While MATLAB successfully provides high-level functions as a simulation tool for rapid prototyping, the underlying details and knowledge needed for utilizing GPUs make MATLAB users hesitate to step into it. Accelerating MATLAB with GPUs offers a primer on bridging this gap. Starting with the basics, setting up MATLAB for CUDA (in Windows, Linux and Mac OS X) and profiling, it then guides users through advanced topics such as CUDA libraries. The authors share their experience developing algorithms using MATLAB, C++ and GPUs for huge datasets, modifying MATLAB codes to better utilize the computational power of GPUs, and integrating them into commercial software products.

Throughout the book, they demonstrate many example codes that can be used as templates of C-MEX and CUDA codes for readers' projects. Download example codes from the publisher's website: <http://booksite.elsevier.com/9780124080805/> Shows how to accelerate MATLAB codes through the GPU for parallel processing, with minimal hardware knowledge Explains the related background on hardware, architecture and programming for ease of use Provides simple worked examples of MATLAB and CUDA C codes as well as templates that can be reused in real-world projects Praise for An Insider's Guide to POLITICAL JOBS IN WASHINGTON "Bill Endicott has written a remarkable description of what Washington political jobs entail, how you get them, and where they lead-a public service." -Gerald Ford 38th President of the United States, Former Minority Leader, U.S. House of Representatives "Public service is essential to our democracy.

Bill Endicott's book. . . is the best primer I have read to help those interested inserving in our nation's capital. For those of us who have had the opportunity to work in political jobs, this experience benefits both the individual and the country." -Leon Panetta Former U.S. Representative, Director of the Office of Management and Budget, and White House Chief of Staff "A view of the process from the inside-from someone who's been there many times. No other source puts all the critical tips into one place as this book does. The perspective on the process is unique. The personal anecdotes and interviews are invaluable. We plan to recommend it to everyone who walks in the door hoping to find a job in politics." -Jennifer Blanck Director of Career and Alumni Services, Georgetown Public Policy Institute, Georgetown University and -John Noble Director of Career Services, Kennedy School of Government, Harvard University Subtitle from cover:

A complete history and price guide. Preface; Introduction to Communications; Networking Fundamentals; Ethernet Networks; Fast and Gigabit Ethernet Systems; Introduction to TCP/IP; Internet Layer Protocols; Host to Host Layer Protocols; Application Layer Protocols; TCP/IP Utilities; LAN System Components; The Internet; Internet Access; The Internet for Communications; Security Considerations; Process Automation; Installing and Troubleshooting TCP/IP; Satellites and TCP/IP. Successful hedge fund investing begins with well-informed strategy. A Guide to Starting Your Hedge Fund is a practical, definitive "how-to" guide, designed to help managers design and launch their own funds, and to help investors select and diligence new funds. The first book to examine the practical aspects of setting up and operating funds with a focus on energy commodity markets, this book scrutinises the due diligence process and comprehensively reviews

the opportunities and risks of all energy commodity markets as hedge fund investments. Extensive planning and strategy advice prove invaluable to prospective fund managers and investors alike, and detailed discussion of the markets' constraints help inform procedural decisions. Readers gain insight into practical matters including legal and commercial structures, due diligence, fund raising, operations, and more, allowing them to construct a concrete investment plan before ever touching a penny. Asset managers are looking to energy commodities to provide attractive uncorrelated - if volatile - returns. These high returns, however, are accompanied by high risk. Few investors have experience evaluating these investment opportunities, and few prospective fund managers understand the market fundamentals and their associated risks. This book provides the answers sorely lacking in hedge fund literature, giving investors and

fundmanagers the background they need to make smarter decisions. Understand the markets' structures, opportunities, and risks. Develop a comprehensive, well-informed investment strategy. Conduct thorough due diligence with a detailed plan. Examine the practical aspects of fund raising, legal and tax structure, and more. Oil has long been traded by hedge funds, but electricity, the fuels that generate electricity, and the environmental products like emissions allowances and weather derivatives have become the new "hot" investment strategies. These high returns come with higher risk, but

*A Guide to Starting Your Hedge Fund* ensures participants have essential information at their disposal. In this high-milieu fantasy we find out if an ex-warrior, lost soul, and thief can stop magic from falling into the wrong hands? Dufin, an ex-warrior dwarf now a mine-working botanist, finds peace and purpose in his gardens with his flowers. But he is

pulled away from his serenity by his king. An important package must be taken to the High Kingdom. A mission he shouldn't do on his own. Enya, a human raised by dwarfs struggles with fitting in. Loved by the dwarf mother who raised her, but despised by the dwarf she longed to call father. Jardeth, a thief too sophisticated for the brothel he was found in. A roamer, traveller happy to go where possible treasures may lie. His true intentions carefully concealed from those closest to him. What does the package they carry contain? Will it throw the world into chaos or is it a peaceful gesture between two kingdoms?

*Blood Magic* is the first book in the *Realm Wardens Fantasy Series*. Join the adventure to find out if Dufin can find peace after the war, Enya finds a family to love her, and if Jardeth can give up his thieving ways. Whether it's

*John Deere, International Harvester or AGCO, Warman's Farm Toys Field Guide* satisfies collectors' need to reliable details, in a portable format.

This brilliantly illustrated guide delivers more than 500 color photos of powerful machines in small-scale splendor. Inside this toy show companion collectors will discover:

- & break; & break; Collector values for farm toys made in the early 1900s through the 1990s which make buying and selling in the 5,000+ active online auctions easier
- & break; & break; Detailed and concise listings provide quick and accurate identification
- & break; & break; Reliable expert information based on the successful big book, Standard Catalog of Farm Toys, 2nd Edition, with nearly \$100,000 in sales

& break; & break; This book is a smart investment for fans of farm toys and experienced collectors and an affordable gift display along with your favorite farm toys.

Summary A hands-on guide that will teach how to design and implement scalable, flexible, and open IoT solutions using web technologies. This book focuses on providing the right balance of theory, code samples, and practical

examples to enable you to successfully connect all sorts of devices to the web and to expose their services and data over REST APIs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology Because the Internet of Things is still new, there is no universal application protocol. Fortunately, the IoT can take advantage of the web, where IoT protocols connect applications thanks to universal and open APIs.

About the Book Building the Web of Things is a guide to using cutting-edge web technologies to build the IoT. This step-by-step book teaches you how to use web protocols to connect real-world devices to the web, including the Semantic and Social Webs. Along the way you'll gain vital concepts as you follow instructions for making Web of Things devices. By the end, you'll have the practical skills you need to implement your own web-connected products and services. What's

Inside Introduction to IoT protocols and devices Connect electronic actuators and sensors (GPIO) to a Raspberry Pi Implement standard REST and Pub/Sub APIs with Node.js on embedded systems Learn about IoT protocols like MQTT and CoAP and integrate them to the Web of Things Use the Semantic Web (JSON-LD, RDFa, etc.) to discover and find Web Things Share Things via Social Networks to create the Social Web of Things Build a web-based smart home with HTTP and WebSocket Compose physical mashups with EVRYTHNG, Node-RED, and IFTTT About the Reader For both seasoned programmers and those with only basic programming skills. About the Authors Dominique Guinard and Vlad Trifa pioneered the Web of Things and cofounded EVRYTHNG, a large-scale IoT cloud powering billions of Web Things. Table of Contents PART 1 BASICS OF THE IOT AND THE WOT From the Internet of Things to the Web of Things Hello, World Wide Web of Things Node.js for the Web of

Things Getting started with embedded systems Building networks of Things PART 2 BUILDING THE WOT Access: Web APIs for Things Implementing Web Things Find: Describe and discover Web Things Share: Securing and sharing Web Things The bestselling guide for network administrators, fully updated for Windows 8 If you're responsible for a network, large or small, this book is your one-stop resource for all the essential details you need to know. Fully updated to cover Windows 8 and Windows Server 2012, it features the latest on broadband technologies, storage, backup procedures, and all the current networking trends. Nine handy minibooks cover the basics, building a network, administration and security, TCP/IP and the Internet, wireless networking, mobile networking, Windows Server 2012, using other Windows servers, and managing Linux systems. A proven bestseller, with more than 111,000 copies sold in four previous editions

Written by veteran IT expert Doug Lowe, who has more than 50 technology books to his credit Provides one-stop shopping for everything networking professionals need to keep large or small networks functioning efficiently Updated with the latest information on building and administering a network, security, wireless and mobile networking, using Windows servers, working with Linux systems, and much more

**Networking All-in-One For Dummies, 5th Edition** provides what network administrators need to know in a handy, easy-to-use reference. Dive into the world of securing digital networks, cloud, IoT, mobile infrastructure, and much more.

**KEY FEATURES** ● Courseware and practice papers with solutions for C.E.H. v11. ● Includes hacking tools, social engineering techniques, and live exercises. ● Add on coverage on Web apps, IoT, cloud, and mobile Penetration testing.

**DESCRIPTION** The 'Certified Ethical Hacker's Guide' summarises all the ethical hacking and

penetration testing fundamentals you'll need to get started professionally in the digital security landscape. The readers will be able to approach the objectives globally, and the knowledge will enable them to analyze and structure the hacks and their findings in a better way. The book begins by making you ready for the journey of a seasonal, ethical hacker. You will get introduced to very specific topics such as reconnaissance, social engineering, network intrusion, mobile and cloud hacking, and so on. Throughout the book, you will find many practical scenarios and get hands-on experience using tools such as Nmap, BurpSuite, OWASP ZAP, etc. Methodologies like brute-forcing, wardriving, evil twining, etc. are explored in detail. You will also gain a stronghold on theoretical concepts such as hashing, network protocols, architecture, and data encryption in real-world environments. In the end, the evergreen bug bounty

programs and traditional career paths for safety professionals will be discussed. The reader will also have practical tasks and self-assessment exercises to plan further paths of learning and certification. **WHAT YOU WILL LEARN**

- Learn methodologies, tools, and techniques of penetration testing and ethical hacking.
- Expert-led practical demonstration of tools and tricks like nmap, BurpSuite, and OWASP ZAP.
- Learn how to perform brute forcing, wardriving, and evil twinning.
- Learn to gain and maintain access to remote systems.
- Prepare detailed tests and execution plans for VAPT (vulnerability assessment and penetration testing) scenarios.

**WHO THIS BOOK IS FOR** This book is intended for prospective and seasonal cybersecurity lovers who want to master cybersecurity and ethical hacking. It also assists software engineers, quality analysts, and penetration testing companies who want to keep up with changing cyber

risks. **TABLE OF CONTENTS**

1. Cyber Security, Ethical Hacking, and Penetration Testing
2. CEH v11 Prerequisites and Syllabus
3. Self-Assessment
4. Reconnaissance
5. Social Engineering
6. Scanning Networks
7. Enumeration
8. Vulnerability Assessment
9. System Hacking
10. Session Hijacking
11. Web Server Hacking
12. Web Application Hacking
13. Hacking Wireless Networks
14. Hacking Mobile Platforms
15. Hacking Clout, IoT, and OT Platforms
16. Cryptography
17. Evading Security Measures
18. Practical Exercises on Penetration Testing and Malware Attacks
19. Roadmap for a Security Professional
20. Digital Compliances and Cyber Laws
21. Self-Assessment-1
22. Self-Assessment-2

5G NR: The Next Generation Wireless Access Technology follows the authors' highly celebrated books on 3G and 4G by providing a new level of insight into 5G NR. After an initial discussion of the background to 5G, including requirements,

spectrum aspects and the standardization timeline, all technology features of the first phase of NR are described in detail. Included is a detailed description of the NR physical-layer structure and higher-layer protocols, RF and spectrum aspects and co-existence and interworking with LTE. The book provides a good understanding of NR and the different NR technology components, giving insight into why a certain solution was selected. Content includes: Key radio-related requirements of NR, design principles, technical features Details of basic NR transmission structure, showing where it has been inherited from LTE and where it deviates from it, and the reasons why NR Multi-antenna transmission functionality Detailed description of the signals and functionality of the initial NR access, including signals for synchronization and system information, random access and paging LTE/NR co-existence in the same spectrum, the benefits of their

interworking as one system The different aspects of mobility in NR RF requirements for NR will be described both for BS and UE, both for the legacy bands and for the new mm-wave bands Gives a concise and accessible explanation of the underlying technology and standards for 5G NR radio-access technology Provides detailed description of the NR physical-layer structure and higher-layer protocols, RF and spectrum aspects and co-existence and interworking with LTE Gives insight not only into the details of the NR specification but also an understanding of why certain solutions look like they do How much risk should we take? A Short Guide to Risk Appetite sets out to help all those who need to decide how much risk can be taken in a particular risky and important situation. David Hillson and Ruth Murray-Webster introduce the RARA Model to explain the complementary and central roles of Risk Appetite and Risk Attitude, and along the way they show how other risk-

related concepts fit in. Risk thresholds are the external expression of inherent risk appetite, and the challenge is how to set the right thresholds. By progressively deconstructing the RARA Model, the authors show that the essential control step is our ability to choose an appropriate risk attitude. The book contains practical guidance to setting risk thresholds that take proper account of the influences of organisational risk culture and the individual risk preferences of key stakeholders. Alongside this, individuals and organisations need to choose the risk attitude that will optimise their chances of achieving the desired objectives. Three teenage girls share their stories about life as students, as young women with disabilities, and as minorities in a male-dominated special education school culture. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United

States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. "No more romance," said the renowned erotic photographer Stefan Soell, after enjoying great success with his two lavish photographic volumes entitled "Alpenglow" and "Volcanic Girls". A completely new, modern style of portraying the nude was required, and Stefan has once more succeeded convincingly.

He searched for the right type of woman to match his vision for three long years, finally settling on something between the young, successful, cool businesswoman and glamorous movie star. Oozing beauty, of course, fantastically built, with a confident, cheeky appearance, and unashamedly flaunting their sex appeal. Soell has discovered over 33 mostly new, never-seen-before faces, and managed to fit all their glorious nudity into the unprecedented environment of finest, ultra-modern, minimalist architecture. The contrast between the wonderful, warm skin tones, sensual body shapes and the cool, modern architecture could not be greater, and the very unusual combination of hot eroticism and cool design increases the attraction of this revised and enlarged special paperback edition immensely. Horizons in Neuropsychopharmacology Internet is based on TCP/IP. There are many terms like IP, DNS, VPN, etc., and the books explaining them are so detailed. This book introduces

you to the World of TCP/IP. You will have a basic understanding of TCP/IP after reading this book. IP address types, DHCP, DNS, NAT, Proxy, VPN and IPv6 subjects are explained. And it is funny somewhat:) (Book). Packed with music, charts and photos, this easy-to-use guidebook provides lessons for playing electric and acoustic guitar by some of the guitar world's top teachers pros like Arlen Roth, Rick Gartner, Happy Traum, and Dan Crary. Topics range from the basics to "getting serious," and include: reading music, fretboard positioning, chords, strumming, bass runs, flatpicker's rhythm licks, fingerpicking, playing the blues, barre chords and their variations, techniques for practicing based on listening, and more. The companion CD contains 12 lessons in the book, from stringing and tuning the guitar to playing the blues scale in all positions and keys. Hatchback (3-door) and Sportback (5-door) models. Does NOT cover Quattro, S3 or Cabriolet models, semi-

automatic transmission, or revised Audi A3 range introduced April 2008 Petrol: 1.6 litre (1595 & 1598cc) & 2.0 litre (1984cc), inc. turbo. Does NOT cover 1.4 litre, 1.8 litre or 3.2 litre petrol engines. Turbo-Diesel: 1.9 litre (1896cc) & 2.0 litre (1968cc). Can drinking coffee help people live longer? What makes a stock's price go up? Why did you get the flu? Causal questions like these arise on a regular basis, but most people likely have not thought deeply about how to answer them. This book helps you think about causality in a structured way: What is a cause, what are causes good for, and what is compelling evidence of causality? Author Samantha Kleinberg shows you how to develop a set of tools for thinking more critically about causes. You'll learn how to question claims, identify causes, make decisions based on causal information, and verify causes through further tests. Whether it's figuring out what data you need, or understanding that the way you collect and prepare data affects

the conclusions you can draw from it, *Why* will help you sharpen your causal inference skills. Here is the perfect book for Windows developers who want to join the forces of Windows NT developers. Each chapter attacks a specific topic of Windows NT programming, explaining how it fits into the big picture and then detailing what programmers need to know to exploit the feature or mechanism in their program. Here is 100% of what you need to develop killer Windows applications that fully exploit the hot new features of the Internet-savvy Windows 98 operating system. The CD-ROM includes all sample code and applications, as well as third-party tools. Endorsed by WJEC and written by experienced examiners David Burtenshaw and Sue Warn, this WJEC A2 Geography Student Unit Guide is the essential study companion for Unit G4: Sustainability. This full-colour book includes all you need to know to prepare for your unit exam: clear guidance on the content of the unit, with topic

summaries, knowledge check questions and a quick-reference index exam advice throughout, so you will know what to expect in the exam and will be able to demonstrate the skills required exam-style questions, with graded student responses, so you can see clearly what is required to get a better grade

### 5G Core Networks: Powering Digitalization

Provides an overview of the 5G Core network architecture, as well as giving descriptions of cloud technologies and the key concepts in the 3GPP rel-15/16 specifications. Written by the authors who are heavily involved in development of the 5G standards and who wrote the successful book on EPC and 4G Packet Networks, this book provides an authoritative reference on the technologies and standards of the 3GPP 5G Core network. Content includes: An overview of the 5G Core Architecture The Stand-Alone and Non-Stand-Alone Architectures Detailed presentation of 5G Core key concepts An overview of 5G

### Radio and Cloud technologies

Learn The differences between the 5G Core network and previous core network generations How the interworking with previous network standards is defined Why certain functionality has been included and what is beyond the scope of 5G Core How the specifications relate to state-of-the-art web-scale concepts and virtualization technologies Details of the protocol and service descriptions Examples of network deployment options Provides a clear, concise and comprehensive view of 5GS/5GC Written by established experts in the 5GS/5GC standardization process, all of whom have extensive experience and understanding of its goals, history and vision Covers potential service and operator scenarios for each architecture Explains the Service Based Architecture, Network Slicing and support of Edge Computing, describing the benefits they will bring Explains what options and

parts of the standards will initially be deployed in real networks, along with their migration paths Autonomous and nonautonomous Chua's circuits are of special significance in the study of chaotic system modeling, chaos-based science and engineering applications. Since hardware and software-based design and implementation approaches can be applied to Chua's circuits, these circuits are also excellent educative models for studying and experimenting nonlinear dynamics and chaos. This book not only presents a collection of the author's published papers on design, simulation and implementation of Chua's circuits, it also provides a systematic approach to practising chaotic dynamics. *Kissing Architecture* explores the mutual attraction between architecture and other forms of contemporary art. In this fresh, insightful, and beautifully illustrated book, renowned architectural critic and scholar Sylvia Lavin develops the concept of "kissing" to describe

the growing intimacy between architecture and new types of art--particularly multimedia installations that take place in and on the surfaces of buildings--and to capture the sensual charge that is being designed and built into architectural surfaces and interior spaces today. Initiating readers into the guilty pleasures of architecture that abandons the narrow focus on function, Lavin looks at recent work by Pipilotti Rist, Doug Aitken, the firm Diller Scofidio + Renfro, and others who choose instead to embrace the viewer in powerful affects and visual and sensory atmospheres. *Kissing Architecture* is the first book in a cutting-edge new series of short, focused arguments written by leading critics, historians, theorists, and practitioners from the world of urban development and contemporary architecture and design. These books are intended to spark vigorous debate. They stake out the positions that will help shape the architecture and urbanism

of tomorrow. Addressing one of the most spectacular and significant developments in the current cultural scene, *Kissing Architecture* is an entertainingly irreverent and disarmingly incisive book that offers an entirely new way of seeing--and experiencing--architecture in the age after representation. The CompTIA Network+ certification is an IT certification exam that verifies you have the essential knowledge and skills in networking to develop a career in IT infrastructure. Unlike other vendor-specific networking certifications, CompTIA Network+ prepares you to support the network regardless of the platform. It forms the foundation you need before specializing in a vendor solution. CompTIA Network+ is the only industry certification that covers both wired and wireless networks. CompTIA's Network+ validates the knowledge and skills needed to troubleshoot, configure and manage wired and wireless networks found in companies around the world. CompTIA

Network+ certifies a professional-level understanding of emerging technologies, including cloud and virtualization technologies. *Intermediate Microeconomics* offers a clear and concise treatment of microeconomic principles in a useful pedagogic framework. The mathematical level is approachable and uses basic algebra with extensions to calculus where it helps the analysis. The book is also strongly applied in focus and shows the relevance of theory in the "real world". Whilst these features make the book approachable to students, the theoretical content and overall learning experience is a rigorous one. In this adapted edition Peter Luke and Michael Wood have been brought in to adapt the text for the UK, European and South African market. Applications features in the book have been internationalised, and the European Social Model/US-UK model debate on the macroeconomy discussed at a micro level. This book is designed for students

specifically studying economics at an undergraduate or postgraduate level such as MBA within the UK and EU in general, and South Africa. These students would be predominantly second-year students who have already taken an introductory course in microeconomics. Aims of the Book: The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study: 1. Diploma in Electronics and Communication

Engineering (ECE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like City and Guilds of London Institute (CGLI). 2. B.E. (Elect. & Comm.)-4-year course offered by various Engineering Colleges. Efforts have been made to cover the papers: Electronics-I & II and Pulse and Digital Circuits. 3. B.Sc. (Elect.)-3-Year vocationalised course recently introduced by Approach.

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