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Node.js Complete Reference Guide is your one-stop solution to building highly scalable, single-language applications that share code between the server and client Key Features Explore the latest JavaScript features and EcmaScript modules Walk through different stages of developing robust applications using Node.js 10 Create rich and scalable RESTful API solutions from scratch Book Description Node.js Complete Reference Guide takes you through rudimentary knowledge of JavaScript and server-side development to create, maintain, deploy, and test your own Node.js applications. You will begin by learning how to use the HTTP Server and Client objects, store data with both SQL and MongoDB databases, and unit test applications with Mocha 5.x, and functionally test them with Puppeteer 1.1.x. Then, you will learn to create scalable and rich RESTful applications on the Node.js platform and write a simple HTTP request handler with self-descriptive URLs. You

will learn to set accurate HTTP status codes, study how to keep your applications backward-compatible and explore some authentication techniques to secure your application. Then, you will study how Node.js has emerged as a strong candidate for developing microservices. With this Learning Path, you will be able to use the best practices and create efficient microservices. This Learning Path includes content from the following Packt products: RESTful Web API Design with Node.js 10, Third Edition by Valentin Bojinov Node.js Web Development, Fourth Edition by David Herron Hands-On Microservices with Node.js by Diogo Resende What you will learn Work with REST service development using the Restify framework Use data storage engines, such as MySQL, SQLITE3, and MongoDB in apps Apply user authentication methods with OAuth2 Perform real-time communication with the front-end using Socket.IO Implement Docker microservices in development, testing, and deployment Perform unit testing with Mocha 5.x and functional testing with Puppeteer 1.1.x Use self-descriptive URLs and set accurate HTTP status codes Deploy a cloud-native microservice to an online provider Who this book is for Node.js Complete Reference Guide is designed for web developers who have a rudimentary understanding of JavaScript and web application development, are keen to enrich their development skills to create RESTful applications, and want utilize their skills to build microservices. This IBM® Redbooks® publication represents a compilation of best practices for deploying and configuring IBM Midrange System Storage™ servers, which include the DS4000® and the DS5000 family of products. This book is intended for IBM technical professionals, Business Partners, and customers responsible for the planning, deployment, and maintenance of the IBM Midrange System Storage family of products. We realize that setting up DS4000 and DS5000 Storage Servers can be a complex task. There is no single configuration that will be satisfactory for every application or situation. First, we provide a conceptual framework for understanding the hardware in a Storage Area Network. Then we offer our guidelines, hints, and tips for the physical installation, cabling, and zoning, using the Storage Manager setup

tasks. After that, we turn our attention to the performance and tuning of various components and features, including numerous guidelines. We look at performance implications for various application products such as DB2®, Oracle, Tivoli® Storage Manager, Microsoft® SQL server, and in particular, Microsoft Exchange with IBM Midrange System Storage servers. Then we review the various tools available to simulate workloads and to measure, collect, and analyze performance data. We also consider the AIX® environment, including High Availability Cluster Multiprocessing (HACMP™) and General Parallel File System (GPFS™). Finally, we provide a quick guide to the storage server installation and configuration using best practices. This edition of the book also includes guidelines for managing and using the DS4000 and DS5000 with the IBM System Storage SAN Volume Controller (SVC). Technological advances in information technology have created many new ways and structures in our lives. Organizations now are mastering services of this technology in their business strategies, productivity, customer services, and other managerial functions to stay competitive. With a focus on the global issues of IT and its implications on organization, this proceedings includes all the presentations of this international conference. R.G.MILES XHP Consulting Ltd, Gloucester. This book is one of two volumes containing papers for presentation at the British Computer Society Expert Systems 98 conference. This is the annual conference of the BCS Specialist Group on Expert Systems and is in its 18 year. During its lifetime it has established itself as the premier Expert Systems conference in the UK. The conference is attracting an increasing number of papers world-wide and this year in excess of 70% were from research groups outside the UK. This volume includes all papers accepted for the Technical Stream of Expert Systems 98 and presented at the conference in December 1998. The papers within this stream present innovative, new research work. The companion volume, Applications and Innovations in Expert Systems VI, includes all papers accepted for the application stream of the conference. This stream has become the premier European conference on applications of Expert Systems.

The papers accepted for presentation within the Technical Stream cover a broad range of research within Expert Systems and fit into four broad categories: ontological frameworks, knowledge base development, classifiers and neuro-fuzzy systems. The award for best Technical paper has been made to David McSherry, from the University of Ulster, for his paper entitled "Strategic Induction of Decision Trees". Primary and Secondary education is a formative time for young students. Lessons learned before the rigors of higher education help to inform learners' future successes, and the increasing prevalence of learning tools and technologies can both help and hinder students in their endeavors. K-12 Education: Concepts, Methodologies, Tools, and Applications investigates the latest advances in online and mobile learning, as well as pedagogies and ontologies influenced by current developments in information and communication technologies, enabling teachers, students, and administrators to make the most of their educational experience. This multivolume work presents all stakeholders in K-12 education with the tools necessary to facilitate the next generation of student-teacher interaction. This book presents essential advances in analytical frameworks and tools for modeling the spatial and economic impacts of disasters. In the wake of natural disasters, such as Hurricane Katrina, the Haiti Earthquake, and the East Japan Earthquake and Tsunami, as well as major terrorist attacks, the book analyzes disaster impacts from various perspectives, including resilience, space-time extensions, and decision-making strategies, in order to better understand how and to what extent these events impact economies and societies around the world. The contributing authors are internationally recognized experts from various disciplines, such as economics, geography, planning, regional science, civil engineering, and risk management. Thanks to the insights they provide, the book will benefit not only researchers in these and related fields, but also graduate students, disaster management professionals, and other decision-makers. As software systems become ubiquitous, the issues of dependability become more and more critical. Given that solutions to these issues must be taken into account from the very

beginning of the design process, it is appropriate that dependability is addressed at the architectural level. This book results from an effort to bring together the research communities of software architectures and dependability. Inspired by the ICSE 2003 Workshop on Software Architectures for Dependable Systems, the book focuses on topics relevant to improving the state of the art in architecting dependable systems. The 15 thoroughly reviewed papers originate partly from the workshop; others were solicited in order to achieve complete coverage of all relevant aspects. The papers are organized into topical sections on architectures for dependability, fault-tolerance in software architectures, dependability analysis in software architectures, and industrial experience. This book highlights original research and high-quality technical briefs on electromagnetic wave propagation, radiation, and scattering, and their applications in industry and biomedical engineering. It also presents recent research achievements in the theoretical, computational, and experimental aspects of electromagnetic wave propagation, radiation, and scattering. The book is divided into three sections. Section 1 consists of chapters with general mathematical methods and approaches to the forward and inverse problems of wave propagation. Section 2 presents the problems of wave propagation in superconducting materials and porous media. Finally, Section 3 discusses various industry and biomedical applications of electromagnetic wave propagation, radiation, and scattering. This textbook presents a detailed insight into the structures and processes of preparing students for Model United Nations (MUN) conferences and for attending Model United Nations conferences, subsequently. It serves as a handbook and practical guide for the implementation of MUN into courses and classes in educational institutions. Written by a Faculty Advisor, and offering additional insights from an experienced award-winning MUN delegate, the book provides a particularly exceptional insightful, and well-rounded approach. The author explains how a MUN course can be taught, presents exercises to prepare students for the conference, and discusses how the MUN delegation and trip to the conference can be

organized. This comprehensive guide offers insights into a broad range of topics, including debates with peers, diplomacy to solve international crises, and learning about the system of the United Nations (UN) organization through simulation. Further, it covers the development of soft skills and communication at the conferences and building international friendships, while it additionally allows learning more about the UN Sustainable Development Goals (SDGs) in the process. With tips, tricks, and bonus material this book will serve as an anchor throughout the students' first MUN experience, as well as provide valuable help for more advanced participants. The book, therefore, is a must-read for both academic staff teaching MUN, as well as students attending MUN courses and planning to attend MUN conferences. "This book reviews computational models and technologies for distance education, focusing on systems, infrastructures, and frameworks for delivering quality education"-- Provided by publisher. Learn proven patterns, techniques, and tricks to take full advantage of the Node.js platform. Master well-known design principles to create applications that are readable, extensible, and that can grow big. Key Features Learn how to create solid server-side applications by leveraging the full power of Node.js 14 Understand how Node.js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystem Avoid common mistakes and use proven patterns to create production grade Node.js applications Book Description In this book, we will show you how to implement a series of best practices and design patterns to help you create efficient and robust Node.js applications with ease. We kick off by exploring the basics of Node.js, analyzing its asynchronous event driven architecture and its fundamental design patterns. We then show you how to build asynchronous control flow patterns with callbacks, promises and async/await. Next, we dive into Node.js streams, unveiling their power and showing you how to use them at their full capacity. Following streams is an analysis of different creational, structural, and behavioral design patterns that take full advantage of JavaScript and Node.js. Lastly, the book dives into more advanced concepts such as Universal

JavaScript, scalability and messaging patterns to help you build enterprise-grade distributed applications. Throughout the book, you'll see Node.js in action with the help of several real-life examples leveraging technologies such as LevelDB, Redis, RabbitMQ, ZeroMQ, and many others. They will be used to demonstrate a pattern or technique, but they will also give you a great introduction to the Node.js ecosystem and its set of solutions. What you will learn

Become comfortable with writing asynchronous code by leveraging callbacks, promises, and the `async/await` syntax

Leverage Node.js streams to create data-driven asynchronous processing pipelines

Implement well-known software design patterns to create production grade applications

Share code between Node.js and the browser and take advantage of full-stack JavaScript

Build and scale microservices and distributed systems powered by Node.js

Use Node.js in conjunction with other powerful technologies such as Redis, RabbitMQ, ZeroMQ, and LevelDB

Who this book is for This book is for developers and software architects who have some prior basic knowledge of JavaScript and Node.js and now want to get the most out of these technologies in terms of productivity, design quality, and scalability.

Software professionals with intermediate experience in Node.js and JavaScript will also find valuable the more advanced patterns and techniques presented in this book. This book assumes that you have an intermediate understanding of web application development, databases, and software design principles.

The Fourth Conference on Fibrous Composites in Structural Design was a successor to the First-to-Third Conferences on Fibrous Composites in Flight Vehicle Design sponsored by the Air Force (First and Second Conferences, September 1973 and May 1974) and by NASA (Third Conference, November 1975) which were aimed at focusing national attention on flight vehicle applications of a new class of fiber reinforced materials, the advanced composites, which afforded weight savings and other advantages which had not been previously available. The Fourth Conference, held at San Diego, California, 14-17 November 1978, was the first of these conferences to be jointly sponsored by the Army, Navy and Air Force together with NASA, as well

as being the first to give attention to non-aerospace applications of fiber reinforced composites. While the design technology for aerospace applications has reached a state of relative maturity, other areas of application such as military bridging, flywheel energy storage systems, ship and surface vessel components and ground vehicle components are in an early stage of development, and it was an important objective to pinpoint where careful attention to structural design was needed in such applications to achieve maximum structural performance payoff together with a high level of reliability and attractive economics. This handbook is an authoritative, comprehensive reference on optical networks, the backbone of today's communication and information society. The book reviews the many underlying technologies that enable the global optical communications infrastructure, but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever-emerging new applications. The book is divided into four parts: Optical Subsystems for Transmission and Switching, Core Networks, Datacenter and Super-Computer Networking, and Optical Access and Wireless Networks. Each chapter is written by world-renown experts that represent academia, industry, and international government and regulatory agencies. Every chapter provides a complete picture of its field, from entry-level information to a snapshot of the respective state-of-the-art technologies to emerging research trends, providing something useful for the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends. Written by professional resume writers, this book includes resumes for a variety of occupations grouped by category. Sixteen of the resumes are printed on high-quality paper stock and bound right into the book. Contains over 200 resumes, 25 cover letter samples, 101 tips for effective resume writing, and 30 tips for polishing cover letters. This book is based on the papers presented at the International Conference on Artificial Neural Networks, ICANN 2001, from August 21-25, 2001 at the Vienna University of Technology, Austria. The conference is organized by the A-

trian Research Institute for Artificial Intelligence in cooperation with the Pattern Recognition and Image Processing Group and the Center for Computational Intelligence at the Vienna University of Technology. The ICANN conferences were initiated in 1991 and have become the major European meeting in the field of neural networks. From about 300 submitted papers, the program committee selected 171 for publication. Each paper has been reviewed by three program committee members/reviewers. We would like to thank all the members of the program committee and the reviewers for their great effort in the reviewing process and helping us to set up a scientific program of high quality. In addition, we have invited eight speakers; three of their papers are also included in the proceedings. We would like to thank the European Neural Network Society (ENNS) for their support. We acknowledge the financial support of Austrian Airlines, Austrian Science Foundation (FWF) under the contract SFB 010, Austrian Society for Artificial Intelligence (OGAI), Bank Austria, and the Vienna Convention Bureau. We would like to express our sincere thanks to A. Flexer, W. Horn, K. Hrabý, F. Leisch, C. Schittenkopf, and A. Weingessel. The conference and the proceedings would not have been possible without their enormous contribution.

**ABSTRACT:** The main goal of this thesis is to present a power control module (PCON) based approach for power and energy management and to examine its control capability in shipboard power system (SPS). The proposed control scheme is implemented in a notional medium voltage direct current (MVDC) integrated power system (IPS) for electric ship. To realize the control functions such as ship mode selection, generator launch schedule, blackout monitoring, and fault ride-through, a PCON based distributed power and energy management system (PEMS) is developed. The control scheme is proposed as two-layer hierarchical architecture with system level on the top as the supervisory control and zonal level on the bottom as the decentralized control, which is based on the zonal distribution characteristic of the notional MVDC IPS that was proposed as one of the approaches for Next Generation Integrated Power System (NGIPS) by Norbert Doerry. Several types of modules with

different functionalities are used to derive the control scheme in detail for the notional MVDC IPS. Those modules include the power generation module (PGM) that controls the function of generators, the power conversion module (PCM) that controls the functions of DC/DC or DC/AC converters, etc. Among them, the power control module (PCON) plays a critical role in the PEMS. It is the core of the control process. PCONs in the PEMS interact with all the other modules, such as power propulsion module (PPM), energy storage module (ESM), load shedding module (LSHED), and human machine interface (HMI) to realize the control algorithm in PEMS. The proposed control scheme is implemented in real time using the real time digital simulator (RTDS) to verify its validity. To achieve this, a system level energy storage module (SESM) and a zonal level energy storage module (ZESM) are developed in RTDS to cooperate with PCONs to realize the control functionalities. In addition, a load shedding module which takes into account the reliability of power supply (in terms of quality of service) is developed. This module can supply uninterruptible power to the mission critical loads. In addition, a multi-agent system (MAS) based framework is proposed to implement the PCON based PEMS through a hardware setup that is composed of MAMBA boards and FPGA interface. Agents are implemented using Java Agent Development Framework (JADE). Various test scenarios were tested to validate the approach. This book constitutes the proceedings of the 12th International Conference on Transport Systems Telematics, TST 2012, held in Katowice-Ustron, Poland, in October 2012. The 48 papers included in this volume were carefully reviewed and selected for inclusion in this book. Transport telematics are the systems using the information and communication technologies in the area of infrastructure and of means of transport and its participants. An intelligent transport covers systems that allow, through the data transmission and analysis, to influence the behaviour of road users and the action of technical elements in means of transport or along the traffic route. Intelligent transport systems - in accordance with the European Directive - are used for the transport management informatisation. The research

shows that the use of telematics can significantly increase the efficiency of the transport system, the road safety and the environmental protection. This book provides an overview of solutions being developed in the field of intelligent transportation systems, and includes theoretical and case studies in the countries of conference participants. Der Sammelband Computational Social Science in the Age of Big Data beschäftigt sich mit Konzepten, Methoden, Tools und Anwendungen (automatisierter) datengetriebener Forschung mit sozialwissenschaftlichem Hintergrund. Der Fokus des Bandes liegt auf der Etablierung der Computational Social Science (CSS) als aufkommendes Forschungs- und Anwendungsfeld. Es werden Beiträge international namhafter Autoren präsentiert, die forschungs- und praxisrelevante Themen dieses Bereiches besprechen. Die Herausgeber forcieren dabei einen interdisziplinären Zugang zum Feld, der sowohl Online-Forschern aus der Wissenschaft wie auch aus der angewandten Marktforschung einen Einstieg bietet. Booting servers from a storage area network (SAN) is being used increasingly in complex data center environments today, due to its significant benefits over the traditional method of booting from local disks. SAN Boot enables organizations to maximize consolidation of their IT resources, minimize their equipment costs, and realize the considerable management benefits of centralizing the boot process. In SAN Boot, you can deploy diskless servers in an environment where the boot disk is located on (often RAID-capable) storage connected to the SAN. The server (initiator) communicates with the storage device (target) through the SAN using the Fibre Channel host bus adapter (HBA). The system downtime is greatly minimized in case a critical component such as a processor, memory, or host bus adapter fails and needs to be replaced. The system administrator needs to swap only the hardware and reconfigure the HBA's BIOS, switch zoning, and host-port definitions on the storage server. The system image still exists on the logical drive, therefore the server is fully operational after the hardware swap and configuration change is completed. This IBM® Redbooks® publication can help you with the SAN Boot implementation. We present various

SAN Boot scenarios using IBM System Storage® products that include DS5000, DS8000®, XIV®, and SVC. The operating systems that are covered include Windows 2008, Red Hat Linux, SUSE Linux, and VMware. "More than forty chapters detail our current astronomical, compositional, geological, and geophysical knowledge of asteroids, as well as their unique physical processes and interrelationships with comets and meteorites"--Provided by publisher. An examination of systematic techniques for the design of sustainable processes and products, this book covers reducing energy consumption, preventing pollution, developing new pathways for biofuels, and producing environmentally friendly and high-quality products. It discusses innovative design approaches and technological pathways that impact energy and environmental issues of new and existing processes. Highlights include design for sustainability and energy efficiency, emerging technologies and processes for energy and the environment, design of biofuels, biological processes and biorefineries, energy systems design and alternative energy sources, multi-scale systems uncertain and complex systems, and product design. "...[a] very unique book that integrates benefits of modular systems for enhanced sustainability to meet the global challenges of rapid and sometimes uncontrolled industrialization in the 21st century."—Pinakin Patel, T2M Global This book examines the role of the modular approach for the back end of the energy industry—energy usage management. It outlines the use of modular approaches for the processes used to improve energy conservation and efficiency, which are preludes to the prudent use of energy. Since energy consumption is conventionally broken down into four sectors—residential, transportation, industrial, and commercial—the discussions on energy usage management are also broken down into these four sectors in the book. The book examines the use of modular systems for five application areas that cover the sectors described above: buildings, vehicles, computers and electrical/electronic products, district heating, and wastewater treatment and desalination. This book also discusses the use of a modular approach for energy storage and transportation. Finally, it describes how the modular approach facilitates bottom-up, top-

down, and hybrid simulation and modeling of the energy systems from various scientific and socioeconomic perspectives. Aimed at industry professionals and researchers involved in the energy industry, this book illustrates in detail, with the help of concrete industrial examples, how a modular approach can facilitate management of energy usage. Enhance your web development projects by fully leveraging Node.js concepts, tools, and best practices at frontend

**Key Features** Discover the internals of Node.js, focusing on frontend web development Explore the npm frontend ecosystem, including its tooling, usage, and development processes Learn about key web development concepts such as monorepos or publishing libraries

**Book Description** Almost a decade after the release of Node.js, the tooling used by frontend developers is fully embracing this cross-platform JavaScript runtime, which is sadly often limited to server-side web development. This is where this Node.js book comes in, showing you what this popular runtime has to offer and how you can unlock its full potential to create frontend-focused web apps. You'll begin by learning the basics and internals of Node.js, before discovering how to divide your code into modules and packages. Next, you'll get to grips with the most popular package managers and their uses and find out how to use TypeScript and other JavaScript variants with Node.js. Knowing which tool to use when is crucial, so this book helps you understand all the available state-of-the-art tools in Node.js. You'll interact with linters such as ESLint and formatters such as Prettier. As you advance, you'll become well-versed with the Swiss Army Knife for frontend developers - the bundler. You'll also explore various testing utilities, such as Jest, for code quality verification. Finally, you'll be able to publish your code in reusable packages with ease. By the end of this web development book, you'll have gained the knowledge to confidently choose the right code structure for your repositories with all that you've learned about monorepos. What you will learn

Develop a frontend application with Node.js-based tools and libraries Use bundlers such as webpack or Vite to create efficient web applications Leverage test runners such as Jest to ship reliable software Organize code repositories to

work in close collaboration with other developers and teams Find out how to publish npm packages to simplify code reuse Improve code quality by enabling consistent formatting using Prettier

**Who this book is for** This book is for junior and intermediate-level frontend web developers who are looking to leverage the Node.js ecosystem for building frontend solutions. The book requires beginner-level knowledge of JavaScript, HTML, and CSS. Prior experience in using a standard shell (sh) will be beneficial. Create real-time applications using Node.js 10, Docker, MySQL, MongoDB, and Socket.IO with this practical guide and go beyond the developer's laptop to cover live deployment, including HTTPS and hardened security.

**Key Features** Learn server-side JavaScript coding through the most up-to-date book on Node.js Explore the latest JavaScript features, and EcmaScript modules Walk through different stages of developing robust applications using Node.js 10

**Book Description** Node.js is a server-side JavaScript platform using an event-driven, non-blocking I/O model allowing users to build fast and scalable data-intensive applications running in real time. This book gives you an excellent starting point, bringing you straight to the heart of developing web applications with Node.js. You will progress from a rudimentary knowledge of JavaScript and server-side development to being able to create, maintain, deploy and test your own Node.js application. You will understand the importance of transitioning to functions that return Promise objects, and the difference between fs, fs/promises and fs-extra. With this book you'll learn how to use the HTTP Server and Client objects, data storage with both SQL and MongoDB databases, real-time applications with Socket.IO, mobile-first theming with Bootstrap, microservice deployment with Docker, authenticating against third-party services using OAuth, and use some well known tools to beef up security of Express 4.16 applications. What you will learn

Install and use Node.js 10 for both development and deployment Use the Express 4.16 application framework Work with REST service development using the Restify framework Use data storage engines such as MySQL, SQLITE3, and MongoDB Use User authentication methods with OAuth2 Perform



Real-time communication with the front-end using Socket.IO Implement Docker microservices in development, testing and deployment Perform unit testing with Mocha 5.x, and functional testing with Puppeteer 1.1.x Work with HTTPS using Let's Encrypt, and application security with Helmet Who this book is for This book is for anybody looking for an alternative to the "P" languages (Perl, PHP, and Python), or anyone looking for a new paradigm of server-side application development. You should have at least a rudimentary understanding of JavaScript and web application development. CD-ROM contains: Freeware tools. This book is devoted to recent developments of instrumentation and measurement techniques applied to the aerospace field. It includes 23 selected papers from the 2019 IEEE International Workshop on Metrology for AeroSpace. Measurements are essential for obtaining a deeper knowledge of a phenomenon or an asset, as well as for making proper decisions and proposing new and efficient solutions, and this is especially true in environments as complex as aerospace. The research contributions included in the book can raise the interest of a wide group of researchers, operators and decision-makers from metrology and aerospace fields by presenting the most innovative solutions in this field from the scientific and technological points of view. This cutting-edge book finds that alternative teaching and learning methods, such as Responsible Management Learning and non-linear decision-making gameplay, can encourage deep learning, integrated thinking and a transformative consumer research perspective. Forward-thinking, it emphasises the importance of infusing the values of the United Nation's 17 Sustainable Development Goals into future curriculums, and discusses the eco-centric, embedded, transdisciplinary and personally transformative learning and teaching required to achieve these. Proceedings of the Seventh International Conference on Simulation of Adaptive Behavior

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