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IN ACTION

Claus Ibsen
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Forewords by
Gregor Hohpe and James Strachan

SAMPLE CHAPTER

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Parallel and High Performance Computing Robert Robey,Yuliana Zamora,2021-06-22 Complex calculations like training deep learning models or running large scale simulations can take an extremely long time Efficient parallel programming can save hours or even days of computing time Parallel and High Performance Computing shows you how to deliver faster run times greater scalability and increased energy efficiency to your programs by mastering parallel techniques for multicore processor and GPU hardware about the technology Modern computing hardware comes equipped with multicore CPUs and GPUs that can process numerous instruction sets simultaneously Parallel computing takes advantage of this now standard computer architecture to execute multiple operations at the same time offering the potential for applications that run faster are more energy efficient and can be scaled to tackle problems that demand large computational capabilities But to get these benefits you must change the way you design and write software Taking advantage of the tools algorithms and design patterns created specifically for parallel processing is essential to creating top performing applications about the book Parallel and High Performance Computing is an irreplaceable guide for anyone who needs to maximize application performance and reduce execution time Parallel computing experts Robert Robey and Yuliana Zamora take a fundamental approach to parallel programming providing novice practitioners the skills needed to tackle any high performance computing project with modern CPU and GPU hardware Get under the hood of parallel computing architecture and learn to evaluate hardware performance scale up your resources to tackle larger problem sizes and deliver a level of energy efficiency that makes high performance possible on hand held devices When you re done you ll be able to build parallel programs that are reliable robust and require minimal code maintenance This book is unique in its breadth with discussions of parallel algorithms techniques to successfully develop parallel programs and wide coverage of the most effective languages for the CPU and GPU The programming paradigms include MPI OpenMP threading and vectorization for the CPU For the GPU the book covers OpenMP and OpenACC directive based approaches and the native based CUDA and OpenCL languages what s inside Steps for planning a new parallel project Choosing the right data structures and algorithms Addressing underperforming kernels and loops The differences in CPU and GPU architecture about the reader For experienced programmers with proficiency in a high performance computing language such as C C or Fortran about the authors Robert Robey has been active in the field of parallel computing for over 30 years He works at Los Alamos National Laboratory and has previously worked at the University of New Mexico where he started up the Albuquerque High Performance Computing Center Yuliana Zamora has lectured on efficient programming of modern hardware at national conferences based on her work developing applications running on tens of thousands of processing cores and the latest GPU architectures   Learn Haskell by Example Philipp Hagenlocher,2024-11-26 Haskell Bookcamp builds your skills with production quality Haskell code by creating interesting projects As you work through each application you will master functional programming and dip

into the language s advanced features The book will help you learn Haskell from the ground up with real world examples rather than tedious academic exercises **Elasticsearch in Action, Second Edition** Madhusudhan Konda,2024-01-02 Build powerful production ready search applications using the incredible features of Elasticsearch In Elasticsearch in Action Second Edition you will discover Architecture concepts and fundamentals of Elasticsearch Installing configuring and running Elasticsearch and Kibana Creating an index with custom settings Data types mapping fundamentals and templates Fundamentals of text analysis and working with text analyzers Indexing deleting and updating documents Indexing data in bulk and reindexing and aliasing operations Learning search concepts relevancy scores and similarity algorithms Elasticsearch in Action Second Edition teaches you to build scalable search applications using Elasticsearch This completely new edition explores Elasticsearch fundamentals from the ground up You ll deep dive into design principles search architectures and Elasticsearch s essential APIs Every chapter is clearly illustrated with diagrams and hands on examples You ll even explore real world use cases for full text search data visualizations and machine learning Plus its comprehensive nature means you ll keep coming back to the book as a handy reference Foreword by Shay Banon About the technology Create fully professional grade search engines with Elasticsearch and Kibana Rewritten for the latest version of Elasticsearch this practical book explores Elasticsearch s high level architecture reveals infrastructure patterns and walks through the search and analytics capabilities of numerous Elasticsearch APIs About the book Elasticsearch in Action Second Edition teaches you how to add modern search features to websites and applications using Elasticsearch 8 In it you ll quickly progress from the basics of installation and configuring clusters to indexing documents advanced aggregations and putting your servers into production You ll especially appreciate the mix of technical detail with techniques for designing great search experiences What s inside Understanding search architecture Full text and term level search queries Analytics and aggregations High level visualizations in Kibana Configure scale and tune clusters About the reader For application developers comfortable with scripting and command line applications About the author Madhusudhan Konda is a full stack lead engineer architect mentor and conference speaker He delivers live online training on Elasticsearch and the Elastic Stack Table of Contents 1 Overview 2 Getting started 3 Architecture 4 Mapping 5 Working with documents 6 Indexing operations 7 Text analysis 8 Introducing search 9 Term level search 10 Full text searches 11 Compound queries 12 Advanced search 13 Aggregations 14 Administration 15 Performance and troubleshooting **The Design of Web APIs, Second Edition** Arnaud Lauret,2025-07-22 Learn how to design web APIs that are a delight to use and maintain Thousands of developers have followed renowned API expert Arnaud Lauret s guidance to create APIs that are flexible secure and easily integrated This new edition of the bestselling The Design of Web APIs covers the latest updates to the OpenAPI standard teaches you to streamline and standardize API design decisions with rationale and automation and gives you insights you can apply to other API styles such as gRPC You ll quickly see how a well designed and properly documented API gives your users autonomy and

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Andreas Wittig,Michael Wittig,2023-05-02 Amazon Web Services in Action An in depth guide to AWS is the ideal guide for mid level developers DevOps or platform engineers architects and system administrators Rich in examples and best practices this Manning bestseller is the all practical complete handbook to computing storage and networking for all core AWS services   OSGi in Action Karl Pauls,David Savage,Stuart McCulloch,Richard Hall,2011-04-05 What is OSGi Simply put OSGi is a standardized technology that allowsdevelopers to create the highly modular Java applications that are required forenterprise development OSGi lets you install start stop update or uninstallcomponents without taking down your entire system The interest in OSGi basedapplications has exploded since major vendors like Sun Spring Oracle BEA and IBM have gotten behind the standard OSGi in Action is a comprehensive guide to OSGi with two primary goals First it provides a clear introduction to OSGi concepts with examples that arerelevant both for architects and developers Then it explores numerous practicalscenarios and techniques answering questions like How much of OSGi doyou actually need How do you embed OSGi inside other containers What arethe best practices for moving legacy systems to OSGi Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book   **Spring Batch in Action** Arnaud Cogoluegnes,Thierry Templier,Olivier Bazoud,2011-09-30 Summary Spring Batch in Action is an in depth guide to writing batch applications using Spring Batch Written for developers who have basic knowledge of Java and the Spring lightweight container the book provides both a best practices approach to writing batch jobs and comprehensive coverage of the Spring Batch framework About the Technology Even though running batch jobs is a common task there s no standard way to write them Spring Batch is a framework for writing batch applications in Java It includes reusable components and a solid runtime environment so you don t have to start a new project from scratch And it uses Spring s familiar programming model to simplify configuration and implementation so it ll be comfortably familiar to most Java developers About the Book Spring Batch in Action is a thorough in depth guide to writing efficient batch applications Starting with the basics it discusses the best practices of batch jobs along with details of the Spring Batch framework You ll learn by working through dozens of practical reusable examples in key areas like monitoring tuning enterprise integration and automated testing No prior batch programming experience is required Basic knowledge of Java and Spring is assumed Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside Batch programming from the ground up Implementing data components Handling errors during batch processing Automating tedious tasks Table of Contents PART 1 BACKGROUND Introducing Spring Batch Spring Batch concepts PART 2 CORE SPRING BATCH Batch configuration Running batch jobs Reading data Writing data Processing data Implementing bulletproof jobs Transaction management PART 3 ADVANCED SPRING BATCH Controlling execution Enterprise integration Monitoring jobs Scaling and parallel processing Testing batch applications   **Serverless Applications with Node.js** Slobodan Stojanovic,Aleksandar Simovic,2019-02-12 Summary Serverless Applications with

Node js walks you through building serverless apps on AWS using JavaScript Inside you ll discover what Claudia js brings to the table as you build and deploy a scalable event based serverless application based around a pizzeria that s fully integrated with AWS services including Lambda and API Gateway Each chapter is filled with exercises examples tips and more to make sure you re ready to bring what you ve learned into your own work Foreword by Gojko Adzic Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology The benefits of cloud hosted serverless web apps are undeniable lower complexity quicker time to market and easier scalability than traditional server dependent designs And thanks to JavaScript support in AWS Lambda and powerful new serverless API tools like the Claudia js library you can build and deploy serverless apps end to end without learning a new language About the Book Serverless Applications with Node js teaches you to design and build serverless web apps on AWS using JavaScript Node and Claudia js You ll master the basics of writing AWS Lambda functions along with core serverless patterns like API Gateway Along the way you ll practice your new skills by building a working chatbot and a voice assistant with Amazon Alexa You ll also discover techniques for migrating existing apps to a serverless platform What s inside Authentication and database storage Asynchronous functions Interesting real world examples Developing serverless microservices About the Reader For web developers comfortable with JavaScript and Node js About the Author Slobodan Stojanovi and Aleksandar Simovi are AWS Serverless Heroes and core contributors to the Claudia js project They are also coauthors of Desole an open source serverless errortracking tool and the lead developers of Claudia Bot Builder Table of Contents PART 1 Serverless pizzeria Introduction to serverless with Claudia Building your first serverless API Asynchronous work is easy we Promise Pizza delivery Connecting an external service Houston we have a problem Level up your API Working with files PART 2 Let s talk When pizza is one message away Chatbots Typing Async and delayed responses Jarvis I mean Alexa order me a pizza Paying for pizza Migrating to serverless Real world case studies appendix A Installation and configuration appendix B Facebook Messenger Twilio and Alexa configuration appendix C Stripe and MongoDB setup appendix D The pizza recipe   *iBATIS in Action* Clinton Begin,Brandon R. Goodin,Larry Meadors,2006-12-31 iBATIS in Action teaches Java developers and architects how to use the iBATIS framework to map relational databases to object oriented programs Written by the creator of iBATIS this practical book presents patterns and solutions that readers can apply immediately iBATIS in Action shows Java developers how to tackle the problem of data persistence using the elegant iBATIS framework iBATIS helps developers solve the problem of connecting or mapping relational databases to object oriented code An extensive running example presents reusable iBATIS patterns and common solutions The sample application shows where iBATIS fits in a typical web application as well as how iBATIS integrates with other popular frameworks like Struts iBATIS in Action focuses on solving existing problems without introducing new ones In addition to showing what iBATIS does iBATIS in Action also shows how iBATIS solves problems Readers explore the driving design philosophy behind iBATIS as presented by iBATIS creator Clinton Begin

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drainage channel to carry a given discharge is accomplished in two parts The first part of the design involves the computation of a channel section which will carry the design discharge on the available slope This chapter briefly discusses the principles of flow in open channels and the use of the Manning equation for computing the channel capacity The second part of the design is the determination of the degree of protection required to prevent erosion in the drainage channel This can be done by computing the velocity in the channel at the design discharge using the Manning equation and comparing the calculated velocity with that permissible for the type of channel lining used A change in the type of channel lining will require a change in channel size unless both linings have the same roughness coefficient *Lessons in Environmental Justice* Michael Mascarenhas,2020-07-30 This book provides the works of individuals who are creating a wave of environmental justice scholarship methodology and activism A theme throughout the book is how vulnerable and marginalized populations bear a disproportionate share of environmental risks Each reading concludes with a suggested assignment *Henry George, The Transatlantic Irish, and their Times* Kenneth C. Wenzer,2009-06-09 The American political economist Henry George devoted his life to the single tax Virtually forgotten today his best seller Progress and Poverty influenced numerous people in the English speaking world His fame and fall were due to a temporary alliance with the American Irish Catholics who were agitating for the land war in Ireland *African American Films Through 1959* Larry Richards,2005-06-10 All films with a predominantly or entirely African American cast or that were about African Americans are detailed here Each entry includes cast and credits year of release studio distributor type of film feature short or documentary and other production details In most cases a brief synopsis of the film or contemporary reviews of it follow In the appendices film credits for over 1 850 actors and actresses are provided along with a listing of film companies *The English Catalogue of Books ...: 1801-1836. Ed. and comp. by R.A. Peddie and Q. Waddington. 1914* ,1915 **Aurelia in Action** Sean Hunter,2018-07-24 Summary Aurelia in Action teaches you how to build fantastic single page applications with the Aurelia framework You ll learn about modern design practices and a modular architecture based on web components perfect for hybrid web mobile apps Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Try Aurelia and you may not go back to your old web framework Flexible and efficient Aurelia enforces modern design practices and a modular architecture based on web components It s perfect for hybrid web mobile apps with hot features like dynamic routes pluggable pipelines and APIs for nearly every flavor of JavaScript About the Book Aurelia in Action teaches you how to build extraordinary web applications using the Aurelia framework You ll immediately take advantage of key elements like web components and decorators when you start to explore the book s running example a virtual bookshelf As the app unfolds you ll dig into templating and data binding the Aurelia way To complete the project you ll take on routing and HTTP along with tuning securing and deploying your finished product What s Inside Templating and data binding Communication between components Server side and SPA design techniques View composition About the Reader

Written for developers comfortable with JavaScript and MVC style web development About the Author Sean Hunter is a web developer with nearly 10 years of experience He s extremely passionate about all things Aurelia and has been working with the framework in production since the early beta days Sean got a taste for teaching developers how to get started with Aurelia while visiting user groups across the UK and he s been excited to expand on this teaching effort with this book These days Sean is working in a variety of web development technologies with companies across Australia and he blogs at https sean hunter io Table of Contents PART 1 INTRODUCTION TO AURELIA Introducing Aurelia Building your first Aurelia application PART 2 EXPLORING AURELIA View resources custom elements and custom attribute Aurelia templating and data bindin Value converters and binding behaviors Intercomponent communication Working with forms Working with HTTP Routing Authentication Dynamic composition Web Components and Aurelia Extending Aurelia Animation PART 3 AURELIA IN THE REAL WORLD Testing Deploying Aurelia applications

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