

# Camel IN ACTION



Claus Ibsen  
Jonathan Anstey

Forewords by  
Gregor Heltge and James Strachan

SAMPLE CHAPTER

 MANNING

# Sample Chapter 14 Manning Publications

**Yan Bai**



## **Sample Chapter 14 Manning Publications:**

*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. *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 saves you from constant explanations and hand holding This fully revised second edition of The Design of Web APIs teaches you the principles and techniques you need to design easy to consume public and private web APIs In it you ll learn how to Analyze requirements to identify API capabilities for versatile reusable designs Create HTTP based REST APIs with CRUD batch bulk or long operations Design interoperable user friendly APIs with seamless operations and data flow Ensure secure efficient APIs while overcoming limitations and constraints Modify APIs without breaking compatibility evaluating consequences carefully Future proof your APIs and choose effective versioning strategies Document REST APIs using OpenAPI and JSON Schema for seamless implementation Streamline and standardize API design decisions with rationale and automation The Design of Web APIs Second Edition teaches vital skills for gathering requirements balancing business and technical goals and constraints and adopting a consumer first mindset Each chapter is packed full of hands on examples including designing an Online Shopping API and user friendly banking operations and over seventy exercises to help your new skills stick Plus you ll explore paradigms applicable beyond REST APIs and fully describe and document your APIs with OpenAPI and JSON Schema Your web APIs will soon be easier to consume and your clients internal and external will be happier than ever About the technology Web APIs open up your software to developers exposing features and capabilities to other programs Well designed web APIs are a joy The bad ones are a nightmare with endless impact on system performance developer productivity and end user experience This book shows you how to design APIs your fellow developers will love to use About the book The Design of Web APIs Second Edition teaches you to design efficient and adaptable REST APIs This revised and rewritten second edition contains the latest updates to the OpenAPI standard along with insights you can apply to other API styles such as GraphQL Learn vital skills for gathering requirements creating easy to consume public and private web APIs and handling non backward compatible modifications and versioning What s inside Design reusable user friendly and interoperable APIs Document your APIs with OpenAPI and JSON Schema Create secure and efficient APIs by design Streamline and standardize API design decisions About the reader Written for developers with experience building and consuming APIs About the author Arnaud Lauret runs the API Handyman blog and is a frequent speaker at API conferences He currently works as an API Industry Researcher at Postman Table of Contents 1 What is API design Part 1 2 Identifying API capabilities 3 Observing operations from the REST angle 4 Representing operations with HTTP 5 Modeling data 6 Describing HTTP operations with OpenAPI 7 Describing data with JSON Schema in OpenAPI Part 2 8 Designing user friendly interoperable data 9 Designing user friendly interoperable operations 10 Designing user friendly interoperable operation flows 11 Designing user friendly interoperable APIs Part 3 12

Designing a secure API 13 Designing an efficient API 14 Adapting the API design to the context 15 Modifying an API Part 4  
16 Facilitating API design decision making 17 Optimizing an OpenAPI document 18 Automating API design guidelines 19  
Enriching API design artifacts A Solutions to the exercises Get a free eBook PDF or ePub from Manning as well as access to  
the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print  
book **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  
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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

**Deep Learning with PyTorch** Luca Pietro Giovanni Antiga, Eli Stevens, Thomas Viehmann, 2020-07-01 We finally have the definitive treatise on PyTorch It covers the basics and abstractions in great detail I hope this book becomes your extended reference document Soumith Chintala co creator of PyTorch Key Features Written by PyTorch s creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book Every other day we hear about new ways to put deep learning to good use improved medical imaging accurate credit card fraud detection long range weather forecasting and more PyTorch puts these superpowers in your hands Instantly familiar to anyone who knows Python data tools like NumPy and Scikit learn PyTorch simplifies deep learning without sacrificing advanced features It s great for building quick models and it scales smoothly from laptop to enterprise Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch This practical book gets you to work right away building a tumor image classifier from scratch After covering the basics you ll learn best practices for the entire deep learning pipeline tackling advanced projects as your PyTorch skills become more sophisticated All code samples are easy to explore in downloadable Jupyter notebooks What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API loading data in Python and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data better model architecture and fine tuning This Book Is Written For For Python programmers with an interest in machine learning No experience with PyTorch or other deep learning frameworks is required About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer and the past 7 years as Chief Technical Officer of a startup making medical device software Luca Antiga is co founder and CEO of an AI engineering company located in Bergamo Italy and a regular contributor to PyTorch Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich Germany and a PyTorch core developer Table of Contents PART 1 CORE PYTORCH 1 Introducing deep learning and the PyTorch Library 2 Pretrained networks 3 It starts with a tensor 4 Real world data representation using tensors 5 The mechanics of learning 6 Using a neural network to fit the data 7 Telling birds from airplanes Learning from images 8 Using convolutions to generalize PART 2 LEARNING FROM IMAGES IN THE REAL WORLD EARLY DETECTION OF LUNG CANCER 9 Using PyTorch to fight cancer 10 Combining data sources into a unified dataset 11 Training a classification model to detect suspected tumors 12 Improving training with metrics and augmentation 13 Using segmentation to find suspected nodules 14 End to end nodule analysis and where to go next PART 3 DEPLOYMENT 15 Deploying to production

*Amazon Web Services in Action, Third Edition*

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 allows developers to create the highly modular Java applications that are required for enterprise development OSGi lets you install start stop update or uninstall components without taking down your entire system The interest in OSGi based applications 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 are relevant both for architects and developers Then it explores numerous practical scenarios and techniques answering questions like How much of OSGi do you actually need How do you embed OSGi inside other containers What are the 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 Cogoluegues, 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 is 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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**Micro Frontends in Action** Michael Geers, 2020-08-25 Micro Frontends in Action teaches you to apply the microservices approach to the frontend Summary Browser based software can quickly become complex and difficult to maintain especially when it is implemented as a large single page application By adopting the micro frontends approach and designing your web apps as systems of features you can deliver faster feature development easier upgrades and pick and choose the technology you use in your stack Micro Frontends in Action is your guide to simplifying unwieldy frontends by composing them from small well defined units Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Micro frontends deliver the same flexibility and maintainability to browser based applications that microservices provide for backend systems You design your project as a set of standalone components that include their own interfaces logic and storage Then you develop these mini applications independently and compose them in the browser About the Book Micro Frontends in Action teaches you to apply the microservices approach to the frontend You'll start with the core micro frontend design ideas Then you'll build an e commerce application working through practical issues like server side and client side composition routing and maintaining a consistent look and feel Finally you'll explore team workflow patterns that maximize the benefit of developing application components independently What's Inside Create a unified frontend from independent applications Combine JavaScript code from multiple frameworks Browser and server side composition and routing Implement effective dev teams and project workflow About the Reader For web developers software architects and team leaders About the Author Michael Geers is a software developer specializing in building user interfaces Table of Contents PART 1 GETTING STARTED WITH MICRO FRONTENDS 1 What are micro frontends 2 My first micro frontends project PART 2 ROUTING COMPOSITION AND COMMUNICATION 3 Composition with Ajax and server side routing 4 Server side composition 5 Client side composition 6 Communication patterns 7 Client side routing and the application shell 8 Composition and universal rendering 9 Which architecture fits my project PART 3 HOW TO BE FAST CONSISTENT AND EFFECTIVE 10 Asset loading 11 Performance is key 12 User interface and design system 13 Teams and boundaries 14 Migration local development and testing

**Practical Text Mining with Perl** Roger Bilisoly, 2011-09-20 Provides readers with the methods algorithms and means to perform text mining tasks This book is devoted to the fundamentals of text mining using Perl an open source programming tool that is freely available via the Internet [www.perl.org](http://www.perl.org) It covers mining ideas from several perspectives statistics data mining linguistics and information retrieval and provides readers with the means to successfully complete text mining tasks on their own The book begins with an introduction to regular expressions a text pattern methodology and quantitative text summaries all of which are fundamental tools of analyzing text Then it builds upon this foundation to explore Probability and texts including the bag of words model Information retrieval techniques such as the TF IDF similarity measure Concordance lines and corpus

linguistics Multivariate techniques such as correlation principal components analysis and clustering Perl modules German and permutation tests Each chapter is devoted to a single key topic and the author carefully and thoughtfully introduces mathematical concepts as they arise allowing readers to learn as they go without having to refer to additional books The inclusion of numerous exercises and worked out examples further complements the book's student friendly format Practical Text Mining with Perl is ideal as a textbook for undergraduate and graduate courses in text mining and as a reference for a variety of professionals who are interested in extracting information from text documents **Hello Swift!** Puneet

Bakshi, Tanmay Bakshi, 2019-04-19 Summary Hello Swift is a how to guide to programming iOS Apps with the Swift language written from a kid's perspective This approachable well illustrated step by step guide takes you from beginning programming concepts all the way through developing complete apps Adults will like it too Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology It's fun to play games and explore new things on your iPhone How amazing would it be to create your own apps With a little practice you can Apple's Swift language along with special coding playgrounds and an easy to use programming environment make it easier than ever Take it from author Tanmay Bakshi who started programming when he was just five years old About the Book His book Hello Swift iOS app programming for kids and other beginners teaches you how to write apps for iPhones and iOS devices step by step starting with your first line of Swift code Packed with dozens of apps and special exercises the book will teach you how to program by writing games solving puzzles and exploring what your iPhone can do Hello Swift gets you started Where you go next is up to you What's inside Crystal clear explanations anyone can understand Kid friendly examples including games and puzzles Learn by doing you'll build dozens of small apps Exercises that encourage critical thinking About the Reader Written for kids who want to learn how to program Psst Adults like it too About the Author Tanmay Bakshi had his first app on the iOS App Store at the age of nine He's now the youngest IBM Champion a Cloud Advisor Watson Developer TED Speaker and Manning author Table of Contents Get ready to build apps with Swift Create your first app Your first real Swift code using variables I/O laboratory Computers make decisions too Let computers do repetitive work Knitting variables into arrays and dictionaries Reuse your code Clean it with function detergent Reduce your code Use less do more with class detergent Reading and writing files Frameworks Bookshelves of classes SpriteKit Fun animation time Time to watch your WatchKit code Continuing your journey with Swift **Run Grow Transform** Steven Bell, 2017-07-27 Shingo Prize winning author

Steve Bell and other thought leaders show you how guiding you to more effectively align people and purpose promote enterprise agility and leverage transformative IT capabilities to create market differentiating value for your customers Combining research and insight with practical examples and in depth case studies that can be put to immediate use Run Grow Transform Integrating Business and Lean IT is a must read for leaders and senior managers from all disciplines

Design Charts for Open-channel Flow United States. Federal Highway Administration, 1979 The design of a highway

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 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

**Design Charts for Open-channel Flow** United States. Bureau of Public Roads,1961 *Fundamentals of Environmental Sampling and Analysis* Chunlong Zhang,2024-02-29 Fundamentals of Environmental Sampling and Analysis A fully reworked and updated introduction to the fundamentals and applications of environmental sampling and analysis Environmental sampling and analysis are essential components of environmental data acquisition and scientific research The acquisition of reliable data with respect to proper sampling chemical and instrumental methodology and QA QC is a critical precursor to all environmental work No would be environmental scientist engineer or policymaker can succeed without an understanding of how to correctly acquire assess and use credible data Fundamentals of Environmental Sampling and Analysis 2nd edition provides this understanding with a comprehensive survey of the theory and applications of these critical sampling and analytical tools The field of environmental research has expanded greatly since the publication of the first edition and this book has been completely rewritten to reflect the latest studies and technological developments The resulting mix of theory and practice will continue to serve as the standard introduction to the subject Readers of the second edition of Fundamentals of Environmental Sampling and Analysis will also find Three new chapters and numerous expanded sections on topics of emerging environmental concerns Detailed discussion of subjects including passive sampling Raman spectroscopy non targeted mass spectroscopic analysis and many more Over 500 sample problems and solutions along with other supplementary instructional materials Fundamentals of Environmental Sampling and Analysis is ideal for students of environmental science and engineering as well as professionals and regulators for whom reliable environmental data through sampling and analysis is critical **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 **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 binding 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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## **Table of Contents Sample Chapter 14 Manning Publications**

1. Understanding the eBook Sample Chapter 14 Manning Publications
  - The Rise of Digital Reading Sample Chapter 14 Manning Publications
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Chapter 14 Manning Publications
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sample Chapter 14 Manning Publications
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Chapter 14 Manning Publications
  - Personalized Recommendations
  - Sample Chapter 14 Manning Publications User Reviews and Ratings
  - Sample Chapter 14 Manning Publications and Bestseller Lists
5. Accessing Sample Chapter 14 Manning Publications Free and Paid eBooks
  - Sample Chapter 14 Manning Publications Public Domain eBooks
  - Sample Chapter 14 Manning Publications eBook Subscription Services
  - Sample Chapter 14 Manning Publications Budget-Friendly Options

6. Navigating Sample Chapter 14 Manning Publications eBook Formats
  - ePub, PDF, MOBI, and More
  - Sample Chapter 14 Manning Publications Compatibility with Devices
  - Sample Chapter 14 Manning Publications Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Chapter 14 Manning Publications
  - Highlighting and Note-Taking Sample Chapter 14 Manning Publications
  - Interactive Elements Sample Chapter 14 Manning Publications
8. Staying Engaged with Sample Chapter 14 Manning Publications
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Chapter 14 Manning Publications
9. Balancing eBooks and Physical Books Sample Chapter 14 Manning Publications
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sample Chapter 14 Manning Publications
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Sample Chapter 14 Manning Publications
  - Setting Reading Goals Sample Chapter 14 Manning Publications
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sample Chapter 14 Manning Publications
  - Fact-Checking eBook Content of Sample Chapter 14 Manning Publications
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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