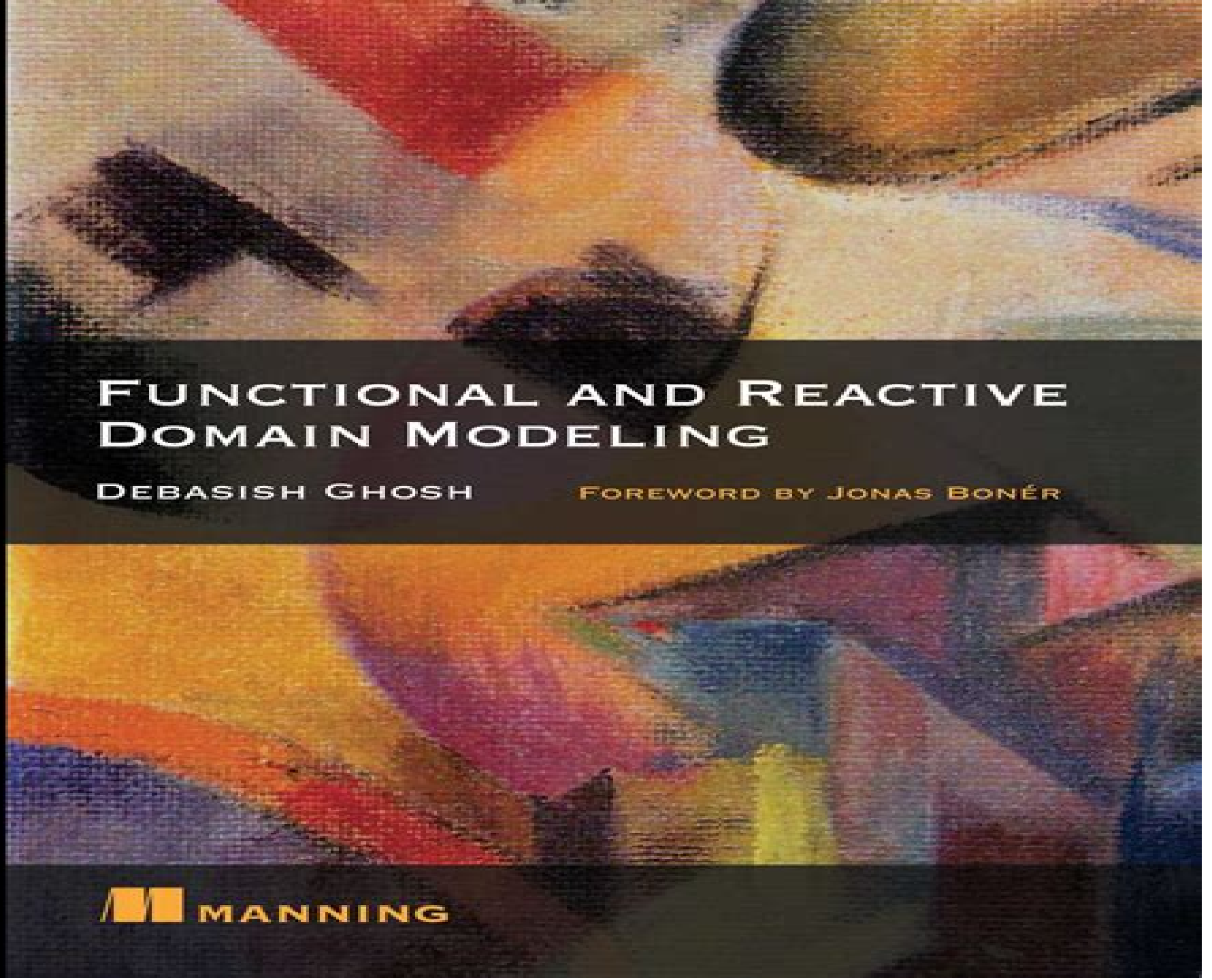
FUNCTIONAL AND REACTIVE DOMAIN MODELING
DEBASISH GHOSH
FOREWORD BY JONAS BONÉR
MANNING

Functional And Reactive Domain Modeling

Weilin Huang

Functional And Reactive Domain Modeling:

Functional and Reactive Domain Modeling Debasish Ghosh,2016-10-04 Summary Functional and Reactive Domain Modeling teaches you how to think of the domain model in terms of pure functions and how to compose them to build larger abstractions Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Traditional distributed applications won t cut it in the reactive world of microservices fast data and sensor networks To capture their dynamic relationships and dependencies these systems require a different approach to domain modeling A domain model composed of pure functions is a more natural way of representing a process in a reactive system and it maps directly onto technologies and patterns like Akka CQRS and event sourcing About the Book Functional and Reactive Domain Modeling teaches you consistent repeatable techniques for building domain models in reactive systems This book reviews the relevant concepts of FP and reactive architectures and then methodically introduces this new approach to domain modeling As you read you ll learn where and how to apply it even if your systems aren t purely reactive or functional An expert blend of theory and practice this book presents strong examples you ll return to again and again as you apply these principles to your own projects What s Inside Real world libraries and frameworks Establish meaningful reliability guarantees Isolate domain logic from side effects Introduction to reactive design patterns About the Reader Readers should be comfortable with functional programming and traditional domain modeling Examples use the Scala language About the Author Software architect Debasish Ghosh was an early adopter of reactive design using Scala and Akka He s the author of DSLs in Action published by Manning in 2010 Table of Contents Functional domain modeling an introduction Scala for functional domain models Designing functional domain models Functional patterns for domain models Modularization of domain models Being reactive Modeling with reactive streams Reactive persistence and event sourcing Testing your domain model Summary core thoughts and principles Functional Design and Architecture Alexander Granin,2024-11-19 Design patterns and architectures for building production quality applications using functional programming Functional Design and Architecture is a pioneering guide to software engineering using Haskell and other functional languages In it you ll discover Functional Declarative Design and other design principles perfect for working in Haskell PureScript F and Scala In Functional Design and Architecture you will learn Designing production applications in statically typed functional languages such as Haskell Controlling code complexity with functional interfaces Architectures subsystems and services for functional languages Developing concurrent frameworks and multithreaded applications Domain driven design using free monads and other functional tools Property based integrational functional unit and automatic whitebox testing Functional Design and Architecture lays out a comprehensive and complete approach to software design that utilizes the powerful and fascinating ideas of functional programming Its examples are in Haskell but its universal principles can be put into practice with any functional programming language Inside you ll find cutting edge functional

design principles and practices for every stage of application development from architecting your application through to running simple and maintainable tests About the technology Functional programming affects every aspect of software development from how you write individual lines of code to the way you organize your applications and data In fact many standard OO patterns are unsuitable or unnecessary for FP applications This book will reorient your thinking to align software design with a functional programming style The examples are in Haskell but the ideas are universal About the book Functional Design and Architecture teaches you how to design software following the unique principles of functional programming You ll explore FP first paradigms like Functional Declarative Design by building interesting applications including a fun spaceship control simulator and a full fledged backend framework This is an opinionated book and you may disagree on some points But we guarantee it will make you think in a fresh way about how you design software What s inside Control code complexity with functional interfaces Architectures subsystems and services for functional languages Domain driven design using free monads Property based and automatic whitebox testing Recalibrate OO designs for functional environments About the reader For experienced developers who know a functional language About the author Alexander Granin is a senior software engineer and architect with more than 15 years of experience He is an international speaker researcher and book author The technical editor on this book was Arnaud Bailly Table of Contents Part 1 1 What is software design 2 The basics of functional declarative design Part 2 3 Drafting the MVP application 4 End to end design Part 3 5 Embedded domain specific languages 6 Domain modeling with free monads Part 4 7 Stateful applications 8 Reactive applications Part 5 9 Concurrent application framework 10 Foundational subsystems 11 Persistence Key value databases 12 Persistence Relational databases 13 Error handling and dependency inversion 14 Business logic design 15 Testing A Plenty of monads B Stacking monads with monad transformers C Word statistics example with monad transformers D Automatic white box testing *Kinetic and Ecological Distribution of Soil Microbial Communities as a Function of Attachment* Alexa N. Rihana-Abdallah,2000 *Macromolecular Characteristics of Natural Organic Matter and Their Influence on Sorption and Desorption Behavior of Organic Chemicals* Eugene Joseph LeBoeuf,1998 *Sorption and Desorption by Soils and Sediments* Weilin Huang,1997 **Environmental Toxicology and Chemistry** ,2006 **Integrating Molecular Simulations with Experiments to Study Organic Pollutant Interactions with Clay Minerals** Vaneet Aggarwal,2005 Analysis of Particulate Methane Monooxygenase (pMMO) Activity in Methanothrophs Jong-In Han,2002 *Applied Simulation and Modelling, ASM '86* International Association of Science and Technology for Development,1986 **Embedded Software** ,2005 RoboCup ... ,2001 **Fate of the Lampricide 3-trifuoromethyl-4-nitrophenol (TFM) in the Environment** Maqbool Hussain,1998 *Improved Modeling Tools Development for High Penetration Solar* Byron Washom,University of California, San Diego,2016 **Chemical Processes in Soils** M. A. Tabatabai,Donald L. Sparks,2005 **One-dimensional and Two-dimensional NMR Studies of Atrazine and Simple Organic Compounds Sorbed by Humic Acid Micelles**

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Table of Contents Functional And Reactive Domain Modeling

1. Understanding the eBook Functional And Reactive Domain Modeling
    - The Rise of Digital Reading Functional And Reactive Domain Modeling
    - Advantages of eBooks Over Traditional Books
2. Identifying Functional And Reactive Domain Modeling
    - 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 Functional And Reactive Domain Modeling
    - User-Friendly Interface
4. Exploring eBook Recommendations from Functional And Reactive Domain Modeling
    - Personalized Recommendations
    - Functional And Reactive Domain Modeling User Reviews and Ratings
    - Functional And Reactive Domain Modeling and Bestseller Lists

5. Accessing Functional And Reactive Domain Modeling Free and Paid eBooks
    - Functional And Reactive Domain Modeling Public Domain eBooks
    - Functional And Reactive Domain Modeling eBook Subscription Services
    - Functional And Reactive Domain Modeling Budget-Friendly Options
6. Navigating Functional And Reactive Domain Modeling eBook Formats
    - ePub, PDF, MOBI, and More
    - Functional And Reactive Domain Modeling Compatibility with Devices
    - Functional And Reactive Domain Modeling Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Functional And Reactive Domain Modeling
    - Highlighting and Note-Taking Functional And Reactive Domain Modeling
    - Interactive Elements Functional And Reactive Domain Modeling
8. Staying Engaged with Functional And Reactive Domain Modeling
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Functional And Reactive Domain Modeling
9. Balancing eBooks and Physical Books Functional And Reactive Domain Modeling
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Functional And Reactive Domain Modeling
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Functional And Reactive Domain Modeling
    - Setting Reading Goals Functional And Reactive Domain Modeling
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Functional And Reactive Domain Modeling
    - Fact-Checking eBook Content of Functional And Reactive Domain Modeling
    - 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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