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Summary: "Written for programmers

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applies the Deitel signature live code
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book goes further than most language books, covering interesting topics like building DSLs with natural language syntax. The authors are core Kotlin developers, so you can trust that even the gnarly details are dead accurate.

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idiomatic code Combining Kotlin and
Java Domain-specific languages

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Clojure programs making use of all of its varied features and advantages. As this is a new language, certain new concepts are supported with theoretical section followed by simple projects to help you gain a better understanding and practice of how Clojure works.

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continuous integration Rapid web*

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and why to use FP concepts such as immutability and pure functions to write more concise, reasonable, and future-proof code. Many developers seek to expand their horizons by using OOP and FP together. It's no longer either-or; it's both. In two parts, this book includes: A Functional Approach: Get a high-level overview of functional

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*language, written by the Rust development
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memory usage) in combination with high-level ergonomics, eliminating the hassle traditionally associated with low-level languages. The authors of The Rust Programming Language, members of the Rust Core Team, share their knowledge and experience to show you how to take full advantage of Rust's features--from

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using an object-oriented approach
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how they can replace older approaches and be combined to achieve surprisingly elegant solutions to problems. This is followed by the investigation of related concepts such as the Optional class and monads, which

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statement: learn functional
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Fortunately, you don't have to master every aspect of FP to get a big payoff. If you take in a few core principles, you'll see an immediate boost in the scalability, readability, and

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the traps and pitfalls of

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commonly misunderstood
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subtleties of the language
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Focus on the language and
its most fundamental
libraries: `java.lang`, `java.util`,
and, to a lesser extent,
`java.util.concurrent` and

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is embracing functional programming (FP), whether it's for writing concurrent programs or for managing Big Data. Where does that leave Java developers? This concise book offers a

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uses an object-oriented
language. Dean Wampler,
Java expert and author of
Programming Scala

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(O'Reilly), shows you how to apply FP principles such as immutability, avoidance of side-effects, and higher-order functions to your Java code. Each chapter provides exercises to help you

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Mastering the functional style of programming can help you tackle the demands of modern apps and will lead to simpler expression of complex

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program logic, graceful error handling,
and elegant concurrency. C++
supports FP with templates, lambdas,
and other core language features, along
with many parts of the STL. About the
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helps you unleash the functional side of

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your brain, as you gain a powerful new perspective on C++ coding. You'll discover dozens of examples, diagrams, and illustrations that break down the functional concepts you can apply in C++, including lazy evaluation, function objects and invocables,

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algebraic data types, and more. As you read, you'll match FP techniques with practical scenarios where they offer the most benefit. What's inside Writing safer code with no performance penalties Explicitly handling errors through the type system Extending

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C++ with new control structures
Composing tasks with DSLs About the
Reader Written for developers with
two or more years of experience coding
in C++. About the Author Ivan
uki is a core developer at KDE
and has been coding in C++ since

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1998. He teaches modern C++ and
functional programming at the Faculty
of Mathematics at the University of
Belgrade. Table of Contents

Introduction to functional
programming Getting started with
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systems Testing and debugging
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Functional programming languages
like F#, Erlang, and Scala are

attracting attention as an efficient way
to handle the new requirements for
programming multi-processor and high-
availability applications. Microsoft's

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new F# is a true functional language
and C# uses functional language
features for LINQ and other recent
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Programming is a unique tutorial that
explores the functional programming
model through the F# and C#

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languages. The clearly presented ideas and examples teach readers how functional programming differs from other approaches. It explains how ideas look in F#-a functional language-as well as how they can be successfully used to solve programming problems in C#.

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Readers build on what they know about .NET and learn where a functional approach makes the most sense and how to apply it effectively in those cases. The reader should have a good working knowledge of C#. No prior exposure to F# or functional

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programming is required. 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.

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*Java continues to grow and evolve, and
this cookbook continues to evolve in*

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*apply them in your day-to-day
development. This updated edition
covers changes through Java 12 and*

*parts of 13 and 14. Recipes include:
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debugging Packaging Java classes and
building applications Manipulating,*

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*Developers Tools For Better
comparing, and rearranging text
Concurrency, Abstraction, And
Regular expressions for string and
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pattern matching Handling numbers,
dates, and times Structuring data with
collections, arrays, and other types
Object-oriented and functional
programming techniques Input/output,*

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*directory, and filesystem operations
Network programming on both client
and server Processing JSON for data
interchange Multithreading and
concurrency Using Java in big data
applications Interfacing Java with
other languages*

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This is a thorough introduction to the fundamental concepts of functional programming. The book clearly

expounds the construction of functional programming as a process of mathematical calculation, but restricts itself to the mathematics relevant to

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*actual program construction. It covers
simple and abstract datatypes,
numbers, lists, examples, trees, and
efficiency. It includes a simple, yet
coherent treatment of the Haskell
class; a calculus of time complexity;
and new coverage of monadic input-*

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*a logical, concise, and clear
progression. In it, you'll find concrete
examples and exercises that open up
the world of functional programming.
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*About the Technology Functional
programming (FP) is a style of
software development emphasizing*

*functions that don't depend on program
state. Functional code is easier to test
and reuse, simpler to parallelize, and
less prone to bugs than other code.*

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tutorial for programmers looking to learn FP and apply it to their everyday work. The book guides readers from basic techniques to advanced topics in a logical, concise, and clear progression. In it, you'll find concrete examples and exercises that open up

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*the world of functional programming.
This book assumes no prior experience
with functional programming. Some
prior exposure to Scala or Java is
helpful. What's Inside Functional
programming concepts The whys and
hows of FP How to write multicore*

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programs Exercises and checks for
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understanding About the Authors Paul
Agility Dean Wampler
Chiusano and Rúnar Bjarnason are
recognized experts in functional
programming with Scala and are core
contributors to the Scalaz library.
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*INTRODUCTION TO FUNCTIONAL
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*External effects and I/O Local effects
and mutable state Stream processing
and incremental I/O*

*Threads are a fundamental part of the
Java platform. As multicore processors
become the norm, using concurrency*

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effectively becomes essential for building high-performance applications. Java SE 5 and 6 are a huge step forward for the development of concurrent applications, with improvements to the Java Virtual Machine to support high-performance,

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highly scalable concurrent classes and a rich set of new concurrency building blocks. In Java Concurrency in Practice , the creators of these new facilities explain not only how they work and how to use them, but also the motivation and design patterns behind

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them. However, developing, testing, and debugging multithreaded programs can still be very difficult; it is all too easy to create concurrent programs that appear to work, but fail when it matters most: in production, under heavy load. Java Concurrency in

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Practice arms readers with both the theoretical underpinnings and concrete techniques for building reliable, scalable, maintainable concurrent applications. Rather than simply offering an inventory of concurrency APIs and mechanisms, it provides

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design rules, patterns, and mental models that make it easier to build concurrent programs that are both correct and performant. This book covers: Basic concepts of concurrency and thread safety Techniques for building and composing thread-safe

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the key differences
between Java and*

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*script, a simple system
utility, or a lightweight
web app—but that's where*

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This elegant JVM-based
dynamic language extends
and simplifies Java so you*

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managing minute details
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use them to your
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working with databases,
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framework. You'll also*

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*the Author Ken Kousen is
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*in Spring, Hibernate,
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testing web applications
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programming language for

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*the Java Virtual Machine
(JVM) that combines the
best features of object-*

*oriented and functional
programming languages.*

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programs more concisely*

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than in Java, as well as leverage the full power of concurrency. Since Scala runs on the JVM, it can access any Java library and is interoperable with Java frameworks. Scala for

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shows developers what
Scala can do and how to do

it. In this book, Cay
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idioms Mastering core

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style of programming and
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ready to program in a*

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*that's also a breeze to
parallelize. You'll
explore the syntax and*

*semantics of lambda
expressions, method and
constructor references,
and functional interfaces.*

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lambda expressions. You'll learn
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how these anonymous functions
will help you write simple, clean,
library-level code that solves***

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business problems. Lambda expressions are a fairly simple change to Java, and the first part of the book shows you how to use them properly. Later chapters show you how lambda functions help you improve

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