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Titolo	A Beginner's Guide to Scala, Object Orientation and Functional Programming // by John Hunt
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Descrizione fisica	1 online resource (XVIII, 494 p. 790 illus.)
Disciplina	005.1
Soggetti	Software engineering Computer programming Programming languages (Electronic computers) Software Engineering/Programming and Operating Systems Programming Techniques Programming Languages, Compilers, Interpreters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Introduction -- Elements of Object Orientation -- Why Object Orientation? -- Constructing an Object Oriented System -- Functional Programming -- Scala Background -- A Little Scala -- Scala Building Blocks -- Scala Classes -- Scala Methods -- Building a Class -- Packages and Encapsulation -- Classes, Inheritance and Abstraction -- Objects and Instances -- Value Classes -- Scala Constructs -- Control and Iteration -- Traits -- Further Traits -- Arrays -- Tuples -- Functional Programming in Scala -- Higher Order Functions -- Partially Applied Functions and Currying -- Scala Collections Framework -- Immutable Lists and Maps -- Immutable and Mutable Collection Packages -- Type Parameterization -- Further Language Constructs -- Exception Handling -- Scala and JDBC Database Access -- Scala Style Database Access -- Scala and MySQL Database Example -- Testing -- Scala Testing -- Introduction to Akka Actors -- Further Akka Actors -- Play Framework -- Restful Services -- Scala Swing -- User Input in Scala Swing -- Scala Build Tools -- Scala and Java Interoperability.
Sommario/riassunto	Scala is a new programming language developed by Martin Odersky

and his team at the EPFL. The name Scala is derived from Sca(lable) La(nguage). Scala is a multi-paradigm language, incorporating object oriented approaches with functional programming. Although some familiarity with standard computing concepts is assumed (such as the idea of compiling a program and executing this compiled form, etc.) and with basic procedural language concepts (such as variables and allocation of values to variables) the early chapters of the book do not assume any familiarity with object orientation nor functional programming. These chapters also step through other concepts with which the reader may not be familiar (such as list processing). From this background, John Hunt provides a practical introduction to object and functional technology using Scala, one of the newest and most interesting programming languages available. A variety of concepts are introduced through practical experience taking the reader beyond the level of the language syntax to the philosophy and practice of object-oriented development and functional programming. Students, and those actively involved in the software industry will find this comprehensive introduction to Scala, and to object orientation and functional programming, invaluable. .
