

Objects First With Java A Practical Introduction Using Bluej 5th Edition By Barnes David J Kling Michael 2011 Paperback

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a modern approach to functional programming objects first with java a practical

introduction is an introduction to object oriented programming for beginners the main focus of the book is general object oriented and programming concepts from a software engineering perspective the first chapters are written for students with no programming experience with later chapters being more suitable for advanced or professional programmers the java programming language and bluej the java development environment are the two tools used throughout the book bluej s clear visualisation of classes and objects means that students can immediately appreciate the differences between them and gain a much better understanding of the nature of an object than they would from simply reading source code unlike traditional textbooks the chapters are not ordered by language features but by software development concepts the sixth edition goes beyond just adding the new language constructs of java 8 the book s exploration of this new language demonstrates a renaissance of functional ideas in modern programming while functional programming isn t new in principle it s seen a boost in popularity based on the current computer hardware available and the changing nature of projects programmers wish to tackle functional language constructs make it possible to efficiently automate currency make use of multiple cores without much effort on the side of the programmer are both more elegant and readable and offer great potential in solving the issue of parallel hardware functional programming has become an essential part of the field and objects first with java gives students a basic understanding of an area they ll need to master in order to succeed in the future

a modern approach to functional programming objects first with java a practical introduction is an introduction to object oriented programming for beginners the main focus of the book is general object oriented and programming concepts from a software engineering perspective the first chapters are written for students with no programming experience with later chapters being more suitable for advanced or professional programmers the java programming language and bluej the java development environment are the two tools used throughout the book bluej s clear visualisation of classes and objects means that students can immediately appreciate the differences between them and gain a much better understanding of the nature of an object than they would from simply reading source code unlike traditional textbooks the chapters are not ordered by language

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if you re an experienced programmer you already have a rock solid foundation for learning java all you need is a resource that takes your experience into account and explains java s key principles and techniques in an intelligent efficient way java practical guide for programmers is precisely that resource here you won t have to wade through hundreds of pages of overly simplistic material to learn the basics of java programming instead you get highly focused instruction in the core elements of java 1 4 accompanied by carefully chosen examples and line by line analyses that are right to the point you ll be astonished at how soon you can begin productive coding in java and how quickly your skills will progress written expressly for people who already know a procedural or object oriented programming language takes a concise approach designed to make the most of the experience you already have covers the core elements of java 1 4 including language syntax oo features collections exception handling input output threads event handling and swing components filled with incisive coding examples and line by line analyses

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introduction to programming and object oriented programming and for beginning programmers this is the only introductory programming textbook that uses the bluej integrated development environment ide to teach introductory and object oriented programming principles using java its close integration with the bluej development environment allows this book to focus on key aspects of object oriented software development from day one bluej's clear visualization of classes and objects means that readers can immediately appreciate the differences between them and gain a much better understanding of the nature of an object than they would from simply reading source code unlike traditional textbooks the chapters are not ordered by language features but by software development concepts language features are introduced as a response to the problems to be solved a large number of different interesting projects are used to provide variety and avoid the monotony of a running problem this book takes an objects first approach to teaching the traditionally difficult concepts of objects in a manipulative visual form throughout the emphasis is on developing a practical approach to programming with students encouraged to add code to existing programs rather than working with an intimidating sheet of blank paper

the previous three editions have established fluid mechanics as the key textbook in its field this fourth edition continues to offer the reader an excellent and comprehensive treatment of the essentials of what is a truly cross disciplinary subject while also providing in depth treatment of selected areas this book is suitable for all students of civil mechanical chemical environmental and building services engineering the fourth edition retains the underlying philosophy of the previous editions guiding the reader from the general to the particular from fundamentals to specialist applications for a range of flow conditions from bounded to free surface and steady to time dependent the basic building block equations are identified and their development and application to problems of considerable engineering concern are demonstrated and discussed the fourth edition of fluid mechanics includes end of chapter summaries outlining all essential concepts an entirely new chapter on the simulation of unsteady flow conditions from free surface to air distribution networks enhanced treatment of dimensional analysis and similarity and an introduction to the fundamentals of cfd

Índice abreviado general techniques objects and equality exception handling performance multithreading classes and interfaces appendix learning java

this introductory programming textbook integrates bluej with java it provides a thorough treatment of object oriented principles

refine your java skills by seamlessly blending foundational core concepts with hands on coding applications key features gain a deep understanding of essential topics that will help you progress with java learn by working on mini projects to help reinforce the concepts you ve learned gain comprehensive knowledge of the core concepts of java purchase of the print or kindle book includes a free pdf ebook book descriptionlearn java with projects bridges the gap between introductory java guides and verbose theoretical references this book is crafted to build a strong foundation in java programming starting from the java environment itself it goes far beyond a superficial review of the topics it demonstrates with practical examples why these fundamentals are crucial for developing a deep understanding of the language you ll not only learn about classes and objects but also see how these concepts are used in practical scenarios enhancing your ability to write clean efficient code the engaging projects throughout the book provide real world applications of complex topics ensuring you can connect theoretical knowledge with practical skills what makes this book stand out is the expertise of its authors seán a seasoned university lecturer with over 20 years of experience brings academic rigor and real world insights thanks to his work with a prestigious software company maaike a passionate software developer and award winning trainer brings hands on experience and a love for teaching by the end of this book you ll not only understand java s core concepts and the critical advanced ones but also gain practical experience through projects that mimic real life challenges what you will learn get to grips with java fundamentals to build a strong programming foundation gain a deep understanding of the critical object oriented principles encapsulation inheritance and polymorphism apply real world scenarios using classes objects and interfaces master exception handling for robust error management explore generics and collections to manage complex data structures utilize lambda expressions and streams for efficient data processing complete practical projects to reinforce theoretical knowledge who this book is for

this book is for anyone looking to learn the core concepts of java if you're learning programming and java for the first time or want to upskill to java with experience in a different language then this book is for you prior knowledge of programming is helpful but not necessary

this in depth technical guide is an essential resource for anyone involved in the development of smart mobile wireless technology including devices infrastructure and applications written by researchers active in both academic and industry settings it offers both a big picture introduction to the topic and detailed insights into the technical details underlying all of the key trends smart phone and next generation mobile computing shows you how the field has evolved its real and potential current capabilities and the issues affecting its future direction it lays a solid foundation for the decisions you face in your work whether you're a manager engineer designer or entrepreneur covers the convergence of phone and pda functionality on the terminal side and the integration of different network types on the infrastructure side compares existing and anticipated wireless technologies focusing on 3g cellular networks and wireless lans evaluates terminal side operating systems programming environments including microsoft windows mobile palm os symbian j2me and linux considers the limitations of existing terminal designs and several pressing application design issues explores challenges and possible solutions relating to the next phase of smart phone development as it relates to services devices and networks surveys a collection of promising applications in areas ranging from gaming to law enforcement to financial processing

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researches and developers of simulation models state that the java program ming language presents a unique and significant opportunity for important changes in the way we develop simulation models today the most important characteristics of the java language that are advantageous for simulation are its multi threading capabilities its facilities for executing programs across the and its graphics facilities it is feasible to develop compatible and reusable simulation components that will facilitate the construction of newer and more complex models this is possible with java development environments another important trend that begun very recently is web based simulation i e and the execution of simulation models using internet browser software this book introduces the application of the java programming language in discrete event simulation in addition the fundamental concepts and practical simulation techniques for modeling different types of systems to study their general behavior and their performance are introduced the approaches applied are the process interaction approach to discrete event simulation and object oriented modeling java is used as the implementation language and uml as the modeling language the first offers several advantages compared to c the most important being thread handling graphical user interfaces qui and computing the second language uml unified modeling language is the standard notation used today for modeling systems as a collection of classes class relationships objects and object behavior

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