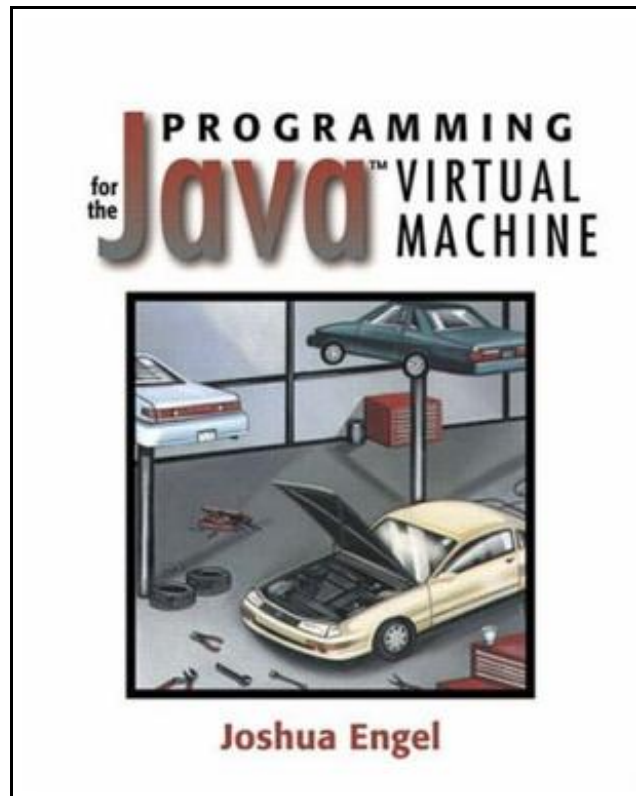# Programming for the Java¿ Virtual Machine

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Reviews

Undoubtedly, this is the best work by any author. It is really simplified but shocks within the 50 % in the publication. Its been written in an extremely straightforward way and is particularly just following i finished reading this publication by which basically altered me, modify the way in my opinion.
(Vivianne Dietrich)

PROGRAMMING FOR THE JAVA&IQUEST; VIRTUAL MACHINE

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Addison-Wesley Professional, 1999. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. 1. Introduction to the Java Virtual Machine. Java Virtual Machine and Java. What Is the Java Virtual Machine? Instruction Set. class File Format. Verification. Java Platform. Organization of the Java Virtual Machine. Class Area. Java Stack. Heap. Native Method Stacks. Example. Garbage Collection. Finalization. Timing of Garbage Collection. JVM Implementations. Versions of the Virtual Machine. Future of the Java Virtual Machine. 2. Oolong. Hello, World. .class and .super Directives. main Method. Instructions. Structure of an Oolong Program. Defining the Class. Superclasses. Declaring Fields. Declaring Methods. Interfaces. 3. Writing Methods. Some Definitions. Types. Numeric Types. Object Types. Type returnAddress. Mnemonic Naming Conventions. Testing Code Examples. Returns. Constants. General Constants. Small Constants and null. Local Variables. Initializing Variables. Local Variables as Method Arguments. Math. Arithmetic Operations. Nonnumbers and Infinity. Bitwise Operations. Floating-Point Arithmetic and strictfp. Type Conversions. Conversion Example. Widening and Narrowing. Stack Manipulations. Arrays of Numbers. Just Biding Your Time. 4. Classes and Objects. What Is an Object? Objects and References. Class Names. Packages. Creating Objects. Constructors. Using Fields. Types and getfield. Inheriting Fields. Changing Field Values. Invoking Methods on Objects. Virtual Invocation. Method Inheritance and Overriding. Overloading and Method Matching. Invoking a Method Directly. invokespecial and super. Casting. Casting, Fields, Methods, and Java. Returning Objects. Interfaces. Static Fields and Methods. Class Initialization. Arrays. Arrays of Reference. Multidimensional Arrays. Length of Arrays. 5. Control Instructions. Comparing Integers. Comparing References. Other Comparisons. Switches. Subroutines. Exceptions. Multiple Exception Handlers. .throws Directive. Other Ways to Throw Exceptions. A Gentler Way of Checking Type. 6. Verification Process. How the Verification Algorithm Works. Is It a Structurally Valid class File? Are All Constant References Correct? Will Each Instruction Always Find a Correctly Formed Stack and Local Variable Array?...

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