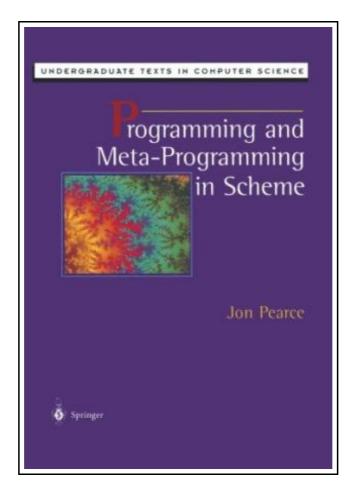
Programming and Meta-Programming in Scheme



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Reviews

This is actually the best ebook we have read till now. Indeed, it can be enjoy, nevertheless an interesting and amazing literature. You will not feel monotony at whenever you want of the time (that's what catalogs are for regarding should you question me).

(Jamar Stracke)

PROGRAMMING AND META-PROGRAMMING IN SCHEME



Book Condition: New. Publisher/Verlag: Springer, Berlin | A comprehensive first course in Scheme, covering all of its major features: abstraction, functional programming, data types, recursion, and semantic programming. Although the primary goal is to teach students to program in Scheme, this will be suitable for anyone taking a general programming principles course. Each chapter is divided into three sections: core, appendix , and problems. Most essential topics are covered in the core section, but it is assumed that most students will read the appendices and solve most of the problems - all of which require short Scheme procedures. As well as providing a thorough grounding in Scheme, the author discusses different programming paradigms in depth. An important theme throughout is that of "meta-programming", thus providing an insight into topics such as type-checking and overloading which might otherwise be missed. | 1.1 LISP.- 1.1.1. LISP Dialects.- 1.2 Scheme.-1.2.1. Scheme on the Web.- 1.3. Structure of the Text.- 1.3.1. Themes.- 1. Expressions and Values.- 1.1. Values.-1.1.1. Numbers.- 1.1.2. Characters.- 1.1.3Booleans.- 1.1.4 Symbols.- 1.1.5. Procedures.- 1.1.6. Strings.- 1.1.7. Lists.-1.1.8. Vectors.- 1.1.9. Pairs.- 1.1.10. Other Value Domains.- 1.2. Expressions.- 1.2.1. Literals.- 1.2.2. Symbols and the Global Environment.- 1.2.3. Applications.- 1.2.4. Structures.- 1.2.5. Literals Revisited.- 1.3. The Scheme Interpreter.- 1.3.1. The Expression Evaluator.- 1.3.2. The Control Loop.- 1.4. Definitions.- Appendices.- Appendix 1.1. Defining Domains.- Appendix 1.2. Sessions.- Appendix 1.3. Numbers.- Problems.- 2. Procedures.- 2.1. Defining and Applying Procedures.- 2.1.1. The Environmental Influence.- 2.1.2. The Modularity Principle and Top-Down Design.- 2.2. Building Procedures Using Application.- 2.2.1. Example: Coercions.- 2.2.2. Example: Palindromes.-2.3. The Abstraction Principle.- 2.3.1. Constructors.- 2.3.2. Selectors.- 2.3.3. Lists as Pairs.- 2.3.4. Example: Association Lists as Records.- 2.4. Polymorphic Procedures.- 2.4.1. Equivalence Predicates.- 2.4.2. The not and null? Predicates.- 2.4.3. Recognition Predicates.- 2.4.4. Example: Searching Association Lists.- 2.5. Meta-Procedures.- Appendices.- Appendix...

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