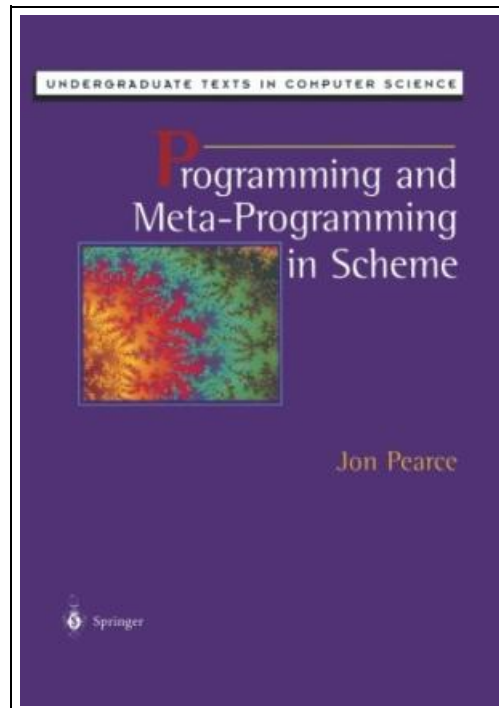# Programming and Meta-Programming in Scheme

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Reviews

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(Dr. Arno Sauer Sr.)

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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