



Programming and Meta-Programming in Scheme

By Pearce, Jon

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.-...



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This book is definitely not straightforward to get started on studying but extremely exciting to read. It is really simplistic but shocks in the 50 percent of the ebook. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Ally Reichel**

This publication is amazing. It is definitely basic but shocks in the fifty percent of your publication. You wont feel monotony at anytime of your own time (that's what catalogues are for concerning if you question me).

-- **Prof. Kirk Cruickshank DDS**