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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.- 1.1.3 Booleans.- 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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