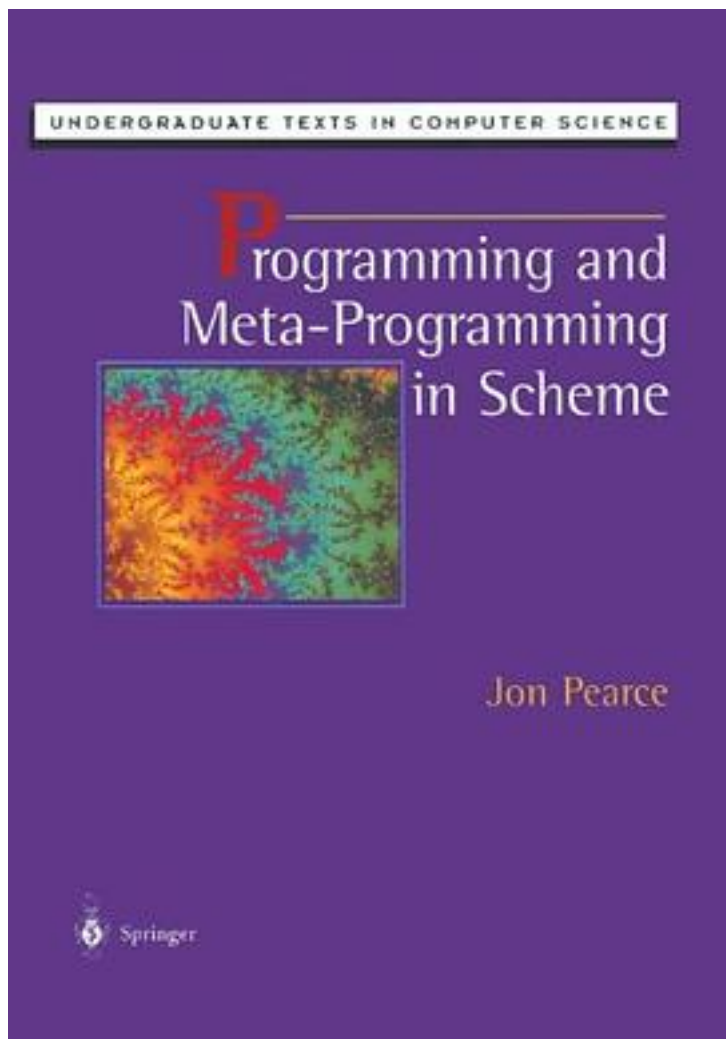# Programming and Meta-Programming in Scheme

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著者:Pearce, Jon

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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.

作者介绍:

目录:

Programming and Meta-Programming in Scheme_下载链接1_

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