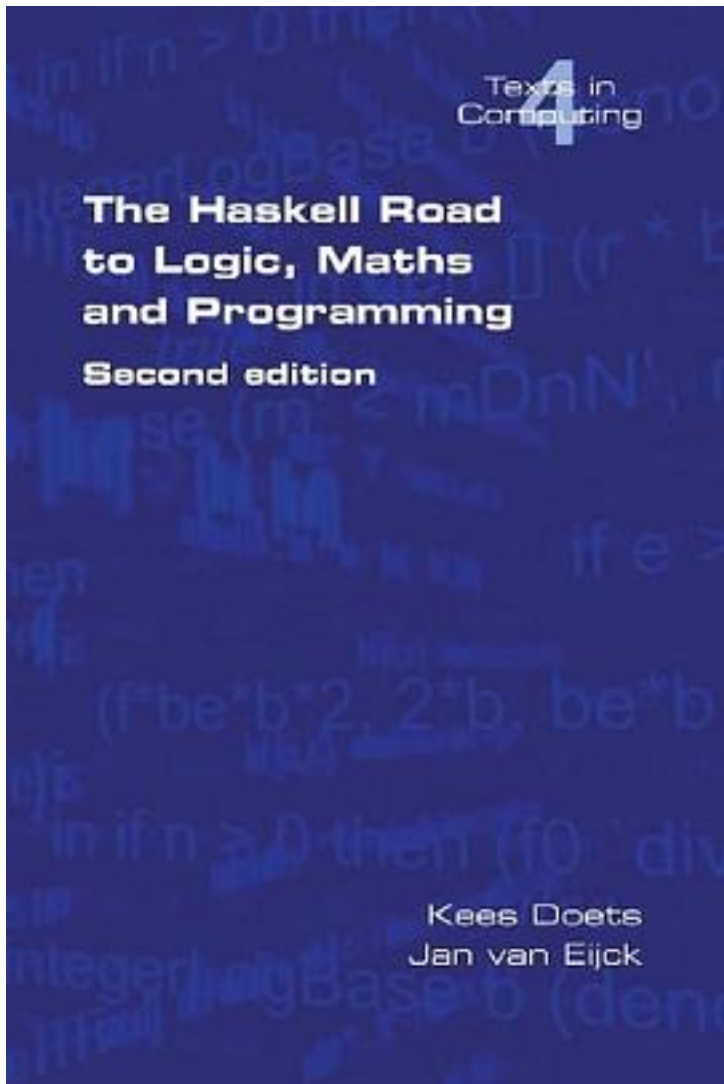


# The Haskell Road to Logic, Maths and Programming. Second Edition



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出版者:College Publications

出版时间:2004-5-7

装帧:Paperback

isbn:9780954300692

The purpose of this book is to teach logic and mathematical reasoning in practice, and to connect logical reasoning with computer programming. Throughout the text, abstract concepts are linked to concrete representations in Haskell. Everything one has to know about programming in Haskell to understand the examples in the book is explained as we go along, but we do not cover every aspect of the language. Haskell is a marvelous demonstration tool for logic and maths because its functional character allows implementations to remain very close to the concepts that get implemented, while the laziness permits smooth handling of infinite data structures. We do not assume that our readers have previous experience with either programming or construction of formal proofs. We do assume previous acquaintance with mathematical notation, at the level of secondary school mathematics. Wherever necessary, we will recall relevant facts. Everything one needs to know about mathematical reasoning or programming is explained as we go along. We do assume that our readers are able to retrieve software from the Internet and install it, and that they know how to use an editor for constructing program texts. After having worked through the material in the book, i.e., after having digested the text and having carried out a substantial number of the exercises, the reader will be able to write interesting programs, reason about their correctness, and document them in a clear fashion. The reader will also have learned how to set up mathematical proofs in a structured way, and how to read and digest mathematical proofs written by others. The book can be used as a course textbook, but since it comes with solutions to all exercises (electronically available from the authors upon request) it is also well suited for private study. The source code of all programs discussed in the text, a list of errata, further relevant material and an email link to the authors can be found here.

<http://homepages.cwi.nl/~jve/HR/>

作者介绍:

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## 标签

haskell

数学

Haskell

函数式编程

logic

逻辑

计算机科学

计算机

## 评论

【逻辑】小站正在发表这本书的详细读书笔记，并同时用Haskell和Common Lisp语言表示，比原书更丰富，感兴趣者可关注。

<https://site.douban.com/145723/widget/notes/18112612/note/606315030/>

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<http://ishare.iask.sina.com.cn/f/10898719.html>

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有点意思

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数学的内容基本就是基础的、不行的离散数学，适合复习离散数学。不过最好要有点函数式编程的基础，作者对Haskell的介绍相当蜻蜓点水，我最终坚持不住转去看INTRO98了，结果发现更虐。苦难的Haskell学习史……等大四吧

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做个优雅的Haskell绅士

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不推荐，只是用Haskell示范了一下非常基本的逻辑和数学内容

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## 书评

此书不是主要讲逻辑的，而是讲怎么用Haskell的特性（主要是lazy evaluation）去实现数学和逻辑的一些命题的推导证明。例子都比较简单，所需要的简单的Haskell知识里面也顺带介绍了。不过这本书的阅读障碍确实是Haskell本身，即使对接触过别的FP语言如ML或Lisp的人来说Haskell也...

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<http://fldit-www.cs.uni-dortmund.de/~peter/PS07/HR.pdf>

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