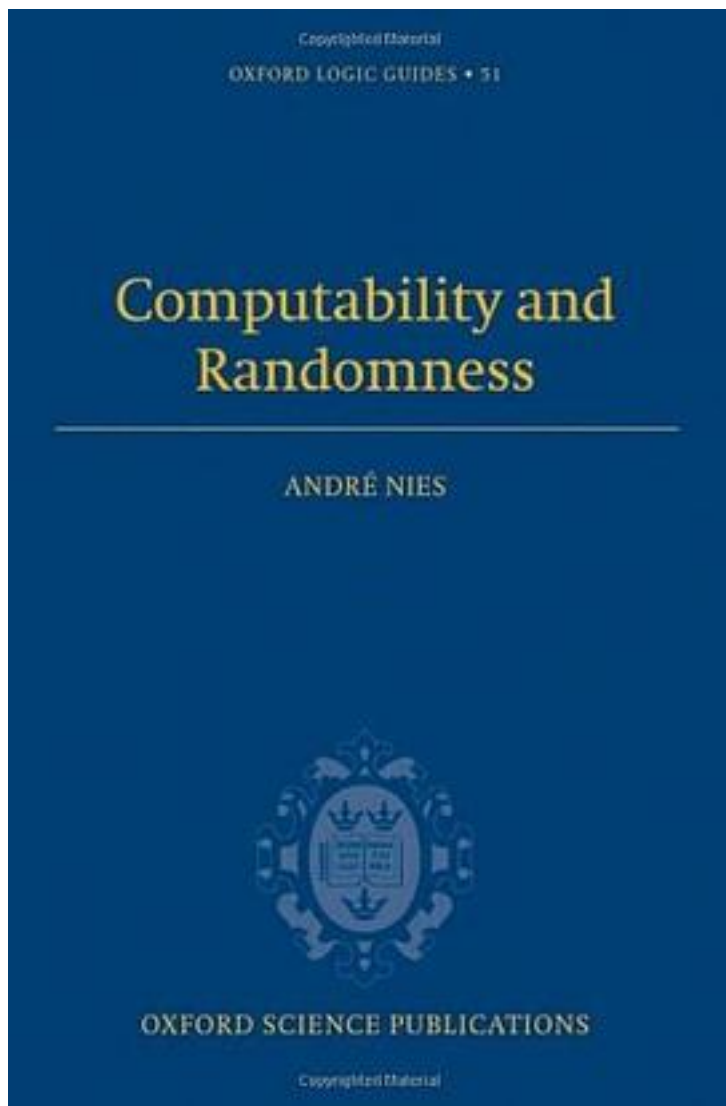


# Computability and Randomness



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著者:Andre Nies

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The interplay between computability and randomness has been an active area of research in recent years, reflected by ample funding in the USA, numerous workshops, and publications on the subject. The complexity and the randomness aspect of a set of natural numbers are closely related. Traditionally, computability theory is concerned with the complexity aspect. However, computability theoretic tools can also be used to introduce mathematical counterparts for the intuitive notion of randomness of a set. Recent research shows that, conversely, concepts and methods originating from randomness enrich computability theory. Covering the basics as well as recent research results, this book provides a very readable introduction to the exciting interface of computability and randomness for graduates and researchers in computability theory, theoretical computer science, and measure theory.

作者介绍:

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## 标签

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## 评论

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## 书评

作者是这一领域内最为杰出的学者之一。不同于Downey-Hirschfeldt的大百科著作algorithmic randomness and complexity（以下以DH简称），Nies的书以刻画低性这一算法随机性理论的核心内容作为主线。因此篇幅上只有DH的一半。这本书写得非常仔细。几乎所有定理证明都是作者自...

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