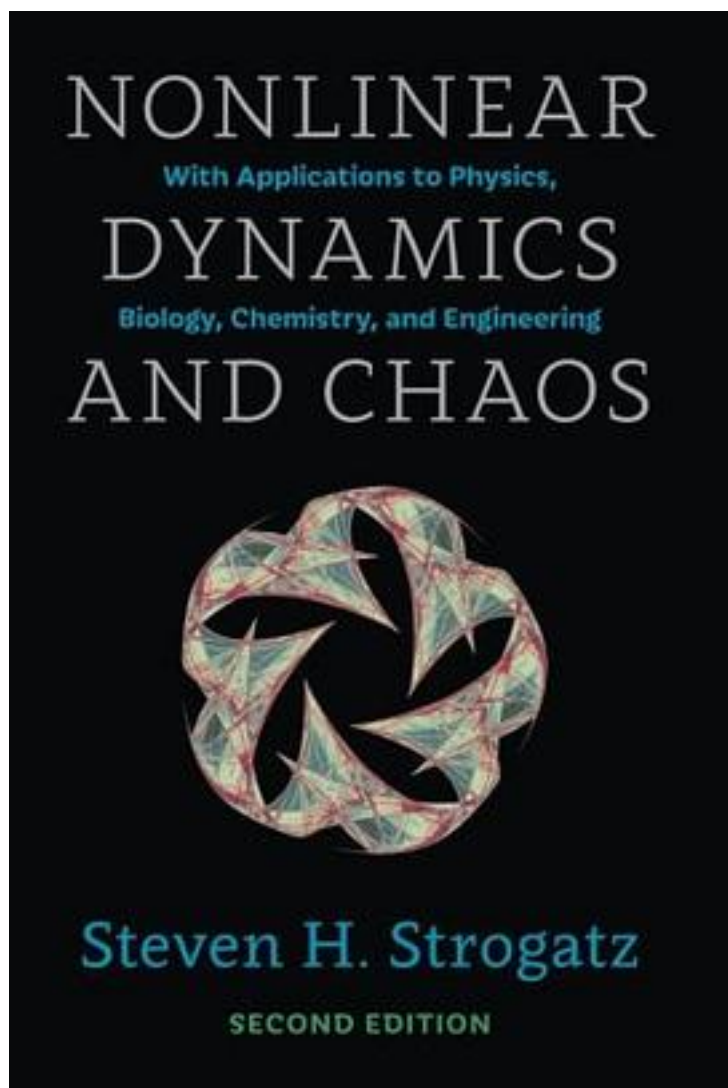# Nonlinear Dynamics and Chaos

[Nonlinear Dynamics and Chaos_下载链接1_](#)

著者:Steven H. Strogatz

出版者:Westview Press

出版时间:1994-4-20

装帧:Hardcover

isbn:9780201543445

Richly illustrated, and with many exercises and worked examples, this book is ideal for an introductory course at the junior-senior level or first-year graduate level. Its emphasis is on applications. DLC: Chaotic behavior in systems.

作者介绍:

Steven H. Strogatz is professor of applied mathematics at Cornell University. He received his Ph.D. from Harvard University in 1986. Professor Strogatz has been honored with several awards including MIT's highest teaching prize, the E.M. Baker Award for Excellence in Undergraduate Teaching, as well as a Presidential Young Investigator Award from the National Science Foundation. His research on a wide variety of nonlinear systems--from synchronized fireflies to small-world networks--has been featured in the pages of Scientific American, Nature, Discover, Business Week, and The New York Times .

目录:

[Nonlinear Dynamics and Chaos_下载链接1_](#)

标签

数学

非线性

教材

SystemDynamics

英文原版

textbook數學

Math

@City

评论

我居然看完了。。。

非线性系统是宇宙神奇美妙参差多态的本源，so magnificient so beautiful.（重温这本书，再次捡起脑海里散落的building bricks，理解全然不同。写作是门深奥的学问。

非常非常棒的非线性入门教材，把数学公式能够写得像小说一样引人入胜，对初学者也足够友好。国外的教材质量还是更胜一筹啊。

老师力荐的英文原版，作为非线性入门书，确实很屌

Nonlinear Dynamics and Chaos_下载链接1_

书评

对于我这个初学者而言，不得不说，作者 Steven.Strogatz 写下的这本书确实是集大成者，包含了很多非线性系统的概念，作者也非常简洁明了的介绍了各部分知识点，从一维系统，平面系统，再到混沌，所涉及研究的方法也比较广泛，主要针对常微分方程，结合矩阵分析求通解，还有无量...

该书被MIT用来做教材，很好的一本入门书。读起来非常舒服。但书中并没有太多严格的数学描述（严格定义，定理的证明之类），正如作者所说" This style of the book is informal"。强烈推荐给喜欢动力系统的读者！

这是我看过的介绍非线性动力学类书籍里面最好的一本，Strogatz不仅在学术上硕果累累，而且具有极强的表达能力，文辞俱佳，读他写的paper从来就没有枯燥之感。

[Nonlinear Dynamics and Chaos_下载链接1_](#)