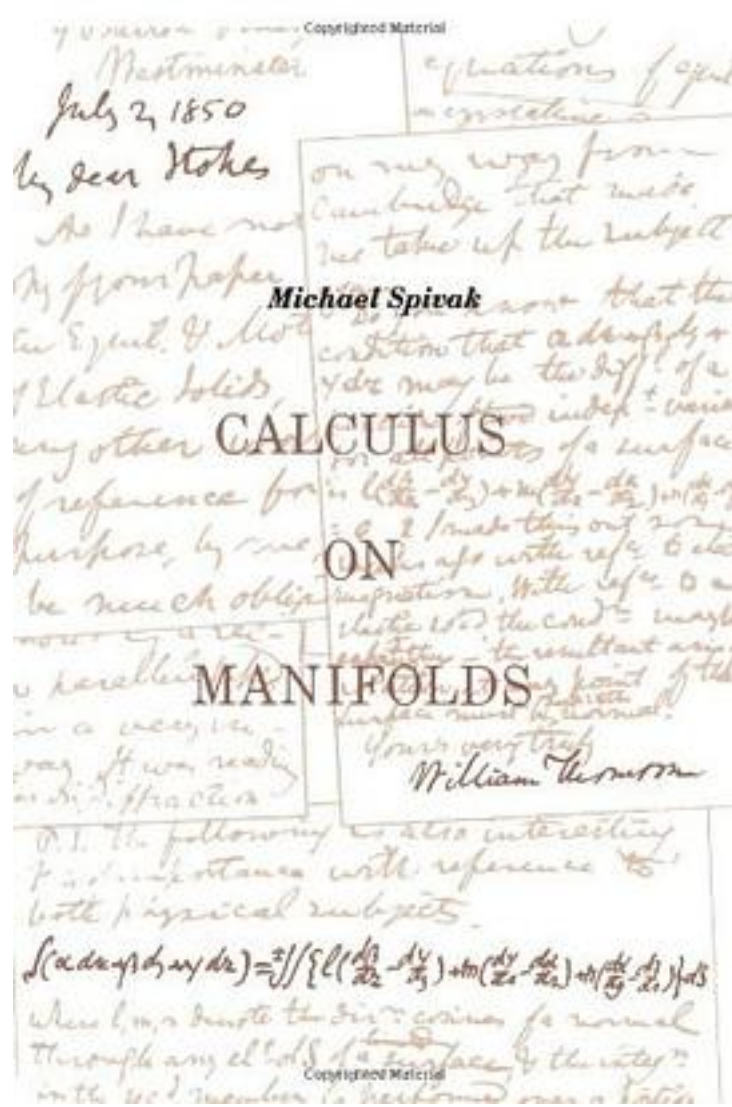


Calculus On Manifolds



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著者:Michael Spivak

出版者:Westview Press

出版时间:1971-1-22

装帧:Paperback

isbn:9780805390216

This little book is especially concerned with those portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level. The approach taken here uses elementary versions of modern methods found in sophisticated mathematics. The formal prerequisites include only a term of linear algebra, a nodding acquaintance with the notation of set theory, and a respectable first-year calculus course (one which at least mentions the least upper bound (sup) and greatest lower bound (inf) of a set of real numbers). Beyond this a certain (perhaps latent) rapport with abstract mathematics will be found almost essential.

作者介绍:

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标签

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评论

其实还是该读读正统的微分拓扑的书才能较好的理解

Spivak在讲完stoke's theorem后说道: "We want to point out some remarks about this theorem: 1. It is trivial. 2. It is trivial because it only uses proper definitions. 3. It is trivial..... 4. It is trivial..... 5. It is trivial....." = =

my favour. unfinished

terse

compact but comprehensive

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书评

看了一遍，觉得spivak的书都是同样的风格。简单，直观，内容的选择也很精当。许多学过多元微积分的学生都不明白这里的许多“感觉”，其实多元微积分的核心感觉是一种几何感觉。不像一元微积分，是有关开集闭集的“拓扑感觉”。这种差异在这本书里表现得淋漓尽致。

这本书很棒，薄薄一册，内容非常丰富，最好把习题都做一遍，配合着RUDIN看。当然，由于篇幅较小，很多问题没有展开来叙述。不过作为一个物理系学生，我很推荐把这本书作为物理系高等数学课进行时或之后的参考书，对于接触现代数学，建立抽象数学概念和感觉很有帮助

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