<<偏微分方程>>

图书基本信息

书名：<<偏微分方程>>

13位ISBN编号：9787510004865

10位ISBN编号：7510004861

出版时间：2009-6

出版时间：世界图书出版公司

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页数：249

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前言

A considerable amount of new material has been added to this edition.There is an extensive discussion of real analytic functions of several variablesin Chapter 3. This permits estimation of the size of the domain of existencein the Cauchy-Kowalevski theorem. A first application of these estimatesconsists in a rigorous proof of a new version of Holmgren's uniquenesstheorem for linear analytic partial differential equations （only sketched inthe earlier editions）. As another application （following Schauder） we give asecond proof for existence of solutions of the initial value problem forsymmetric hyperbolic systems in Chapter 5. Chapter 6 now includes a moredetailed study of the Hilbert spaces with applications to the boundarybehavior of solutions of the Dirichlet problem in higher dimensions. ToChapter 7 there has been added a proof of Widder's theorem on non-negativesolutions of the heat equation. Finally, a new chapter, Chapter 8, containsH. Lewy's construction of a linear differential equation without solutions.There are also more problems, designed, in part, to extend the materialdiscussed in the text. 1 am particularly indebted to my colleague Percy A. Deift of the CourantInstitute of New York University, to Prof. A. Garder of the Southern IllinoisUniversity at Edwardsville, Illinois, and to Dr. George Dassios of theNational Technical University of Athens, Greece, for taking the trouble tocompile lists of errors in the third edition. I hope that these have all beencorrected and not too many new ones added in the present edition.

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内容概要

本书是一部非常优秀的介绍偏微分方程的入门书籍，可以作为研究生阶段学习的基石。
本书详尽地介绍了偏微分方程理论的重要方面，并从数学分析的角度做了进一步的探讨。
本书是第4版，增加了全新的一章讲述无解线性方程的Lewy例子。

作者简介

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书籍目录

章节摘录

插图：

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