

<<常微分方程>>

图书基本信息

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内容概要

本书是在1996年出版的《常微分方程》（德文）一书的基础上编写而成的，书中主要介绍常微分方程的基础理论。

内容包括：可积一阶微分方程，微分方程解的存在性和唯一性，微分方程的初极值问题，边值问题和特征值问题，稳定性与渐进稳定性理论。

阅读本书需要具备一定的计算代数、线性代数及泛函分析的基础知识。

适用于高校数学专业、牧业专业和计算机科学等相关专业的本科生和研究生。

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书籍目录

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媒体关注与评论

书评The author's book on Gewöhnliche Differentialgleichungen (Ordinary Differential Equations) was published in 1972. The present book is based on a translation of the latest, 6th, edition, which appeared in 1996, but it also treats some important subjects that are not found there. The German book is widely used as a textbook for a first course in ordinary differential equations. This is a rigorous course, and it contains some material that is more difficult than that usually found in a first course textbook; such as, for example, Peano's existence theorem. It is addressed to students of mathematics, physics, and computer science and is usually taken in the third semester. Let me remark here that in the German system the student learns calculus of one variable at the gymnasium¹ and begins at the university with a two-semester course on real analysis which is usually followed by ordinary differential equations.

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编辑推荐

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