

<<微积分学(CALCULUS with)>>

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## 前言

科学技术的高速发展，特别是互联网的使用，使得知识信息可以跨越国界，实现全球共享，这就要求作为新科技人才培养基地的高等院校，其课程的内容及形式都应有新的发展。

本书是根据国内高等学校对数学教学的要求，并参考国外一些优秀的微积分教程而编写的一本英文高等数学教材。

在内容的深度及广度方面，它包括了一元函数微积分学、多元函数微积分学、级数及空间解析几何的有关内容，并给出了相关概念在几何、物理及经济方面的应用实例。

本书可以作为高等学校科技英语专业的高等数学课程教科书，也可以作为文科类专业采用英文教学的高等数学课程教材。

由于本书包括了微积分的所有基本内容，它也可以作为高等学校工科各专业高年级学生及工程技术人员学习科技英语的一本辅助教材，同时可以作为外国留学生学习中文版高等数学课程相关内容的一本对照参考书。

本书由张凤玲、姚妙新主编，由张凤玲、姚妙新、张玉环编写。

全书共11章。

第1~7章是一元函数微积分的内容，第8章是有关级数的内容，第9章是有关空间解析几何的内容，第10~11章是多元函数微积分的内容。

每章后面都配有习题，书后附有答案及部分习题的提示。

本书作为天津大学教学改革“九五”重点教材，得到了天津大学教务处、出版社、数学系的大力支持，并在编写排版过程中得到了数学系喻文唤、毛云英、杨正方、杨玉芳老师的帮助，在此表示衷心的感谢。

## <<微积分学(CALCULUS with)>>

### 内容概要

《微积分学（英文）》是根据国内高等学校对数学教学的要求，并参考国外一些优秀的微积分教程而编写的一本英文高等数学教材。

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