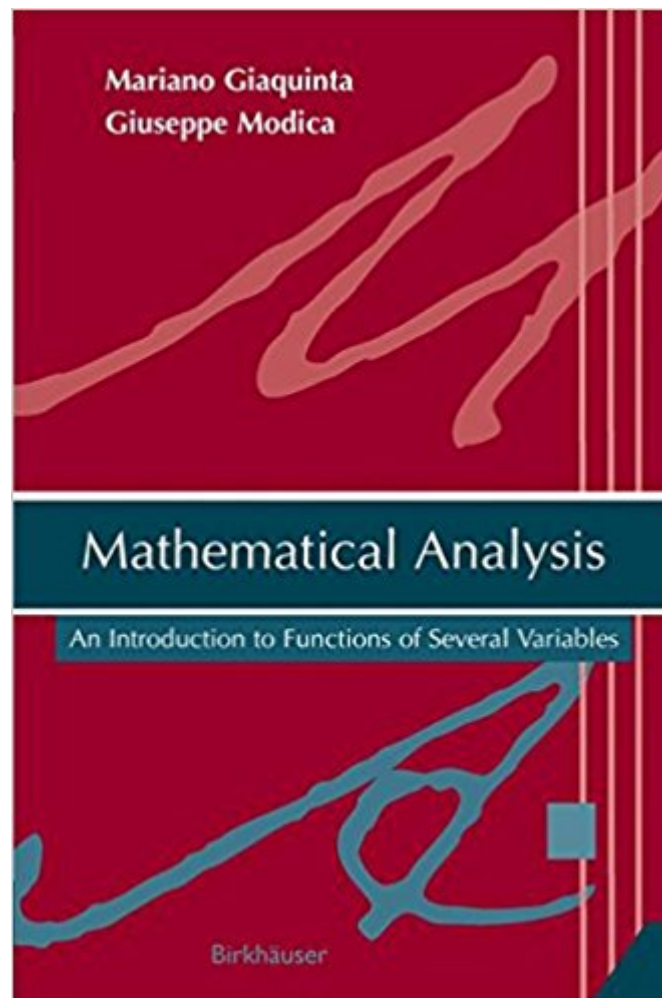




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# Mathematical Analysis: An Introduction To Functions Of Several Variables



## Synopsis

This superb and self-contained work is an introductory presentation of basic ideas, structures, and results of differential and integral calculus for functions of several variables. The wide range of topics covered include the differential calculus of several variables, including differential calculus of Banach spaces, the relevant results of Lebesgue integration theory, and systems and stability of ordinary differential equations. An appendix highlights important mathematicians and other scientists whose contributions have made a great impact on the development of theories in analysis. This text motivates the study of the analysis of several variables with examples, observations, exercises, and illustrations. It may be used in the classroom setting or for self-study by advanced undergraduate and graduate students and as a valuable reference for researchers in mathematics, physics, and engineering.

## Book Information

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mathematical analysis devoted to the higher dimensional spaces. • | The textbook is suitable for students of mathematics, physics, engineering and technology, as well as for researchers. • (Vladimír Janiř, Zentralblatt MATH, Vol. 1177, 2010) • This is a part of an ampler project of the authors • | . The applications and the examples included in the book make it more attractive. There are also exercises at the end of each chapter. • | will supply the reader with a fairly complete account of the fundamental results in mathematical analysis and applications, including Lebesgue integration in  $\mathbb{R}^n$  and complex analysis of one variable. • | can be used for courses in real or complex analysis and their applications. • (Tiberiu Trif, Studia Universitatis Babes-Bolyai, Mathematica, Vol. LV (4), December, 2010) • This is a textbook on analysis of functions of several real variables and of functions of one complex variable. • | The book is concise and nicely written and may well serve as source for (graduate) courses in the areas covered as well as a textbook for students and as a reference book for the working mathematician. • (R. Steinbauer, Monatshefte für Mathematik, Vol. 165 (3-4), March, 2012)

This text introduces basic ideas, structures, and results of differential and integral calculus for functions of several variables. The presentation is engaging and motivates the reader with numerous examples, remarks, illustrations, and exercises. Mathematical Analysis: An Introduction to Functions of Several Variables may be used in the classroom setting for advanced undergraduate and graduate students or as a self-study. It is also a valuable reference for researchers in most mathematical disciplines. An appendix highlights mathematicians and scientists who have made important contributions in the development of theories in the subject. Other books recently published by the authors include: Mathematical Analysis: Functions of One Variable, Mathematical Analysis: Approximation and Discrete Processes, and Mathematical Analysis: Linear and Metric Structures and Continuity, all of which provide the reader with a strong foundation in modern-day analysis. Reviews of previous volumes in Mathematical Analysis: The presentation of the theory is clearly arranged, all theorems have rigorous proofs, and every chapter closes with a summing up of the results and exercises with different requirements. . . . This book is excellently suitable for students in mathematics, physics, engineering, computer science and all students of technological and scientific faculties. • Journal of Analysis and its Applications The exposition requires only a sound knowledge of calculus and the functions of one variable. A key feature this lively yet rigorous and systematic treatment is the historical accounts of ideas and methods of the subject. Ideas in mathematics develop in cultural, historical and economical contexts, thus the authors made brief accounts of those aspects and used a large number of beautiful illustrations.

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