

# Functions of Several Real Variables

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## 2.1 Introduction

In Chapter 1 we studied the calculus of functions of a single real variable defined by  $y = f(x)$ . In this chapter we shall extend the concepts of functions of one variable to functions of two or more variables.

If to each point  $(x, y)$  of a certain part of the  $x$ - $y$  plane,  $x \in \mathbb{R}$ ,  $y \in \mathbb{R}$  or  $(x, y) \in \mathbb{R} \times \mathbb{R} = \mathbb{R}^2$ , there corresponds a real value  $z$  according to some rule  $f(x, y)$ , then  $f(x, y)$  is called a *real valued function of two variables*  $x$  and  $y$  and is written as

$$z = f(x, y), x \in \mathbb{R}, y \in \mathbb{R}, \text{ or } (x, y) \in \mathbb{R}^2, z \in \mathbb{R}. \quad (2.1)$$

We call  $x, y$  as the independent variables and  $z$  as the dependent variable.

In general, we define a real valued function of  $n$  variables as

$$z = f(x_1, x_2, \dots, x_n), (x_1, x_2, \dots, x_n) \in \mathbb{R}^n, z \in \mathbb{R} \quad (2.2)$$

where  $x_1, x_2, \dots, x_n$  are the  $n$  independent variables and  $z$  is the dependent variable. The point  $(x_1, x_2, \dots, x_n)$  is called an  *$n$ -tuple* and lies in an  $n$ -dimensional space. In this case, the function  $f$  maps  $\mathbb{R}^n$  into  $\mathbb{R}$ .

The function as defined by Eq. (2.2) is called an *explicit* function, whereas a function defined by  $\phi(z, x_1, x_2, \dots, x_n) = 0$  is called an *implicit* function.

We shall discuss the calculus of the functions of two variables in detail and then generalize to the case of several variables.

## 2.2 Functions of Two Variables

Consider the function of two variables

$$z = f(x, y). \quad (2.3)$$

The set of points  $(x, y)$  in the  $x$ - $y$  plane for which  $f(x, y)$  is defined is called the *domain* of definition of the function and is denoted by  $D$ . This domain may be the entire  $x$ - $y$  plane or a part of the  $x$ - $y$  plane. The collection of the corresponding values of  $z$  is called the *range* of the function. The following are some examples

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**Yan Bai**



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**Functions Of Several Real Variables** Martin Moskowitz, Fotios C Paliogiannis, 2011-04-29 This book begins with the basics of the geometry and topology of Euclidean space and continues with the main topics in the theory of functions of several real variables including limits continuity differentiation and integration All topics and in particular differentiation and integration are treated in depth and with mathematical rigor The classical theorems of differentiation and integration such as the Inverse and Implicit Function theorems Lagrange s multiplier rule Fubini s theorem the change of variables formula Green s Stokes and Gauss theorems are proved in detail and many of them with novel proofs The authors develop the theory in a logical sequence building one result upon the other enriching the development with numerous explanatory remarks and historical footnotes A number of well chosen illustrative examples and counter examples clarify matters and teach the reader how to apply these results and solve problems in mathematics the other sciences and economics Each of the chapters concludes with groups of exercises and problems many of them with detailed solutions while others with hints or final answers More advanced topics such as Morse s lemma Sard s theorem the Weierstrass approximation theorem the Fourier transform Vector fields on spheres Brouwer s fixed point theorem Whitney s embedding theorem Picard s theorem and Hermite polynomials are discussed in starred sections

**Several Real Variables** Shmuel Kantorovitz, 2016-02-09 This undergraduate textbook is based on lectures given by the author on the differential and integral calculus of functions of several real variables The book has a modern approach and includes topics such as The  $p$  norms on vector space and their equivalence The Weierstrass and Stone Weierstrass approximation theorems The differential as a linear functional Jacobians Hessians and Taylor s theorem in several variables The Implicit Function Theorem for a system of equations proved via Banach s Fixed Point Theorem Applications to Ordinary Differential Equations Line integrals and an introduction to surface integrals This book features numerous examples detailed proofs as well as exercises at the end of sections Many of the exercises have detailed solutions making the book suitable for self study Several Real Variables will be useful for undergraduate students in mathematics who have completed first courses in linear algebra and analysis of one real variable

**Functions of Several Real Variables** J. R. L. Webb, 1991 Aimed at second year undergraduates through to postgraduates studying mathematical analysis this textbook describes the theory of real analysis up to but excluding multiple integration It includes a study of differentiation culminating in the implicit function theorem

*Functions of several variables* B. Craven, 2012-12-06 This book is aimed at mathematics students typically in the second year of a university course The first chapter however is suitable for first year students Differentiable functions are treated initially from the standpoint of approximating a curved surface locally by a fiat surface This enables both geometric intuition and some elementary matrix algebra to be put to effective use In Chapter 2 the required theorems chain rule inverse and implicit function theorems etc are stated and proved for  $n$  variables concisely and rigorously Chapter 3 deals with maxima and

minima including problems with equality and inequality constraints The chapter includes criteria for discriminating between maxima minima and saddlepoints for constrained problems this material is relevant for applications but most textbooks omit it In Chapter 4 integration over areas volumes curves and surfaces is developed and both the change of variable formula and the Gauss Green Stokes set of theorems are obtained The integrals are defined with approximative sums expressed concisely by using step functions this preserves some geometrical and physical concept of what is happening Consequent on this the main ideas of the differential form approach are presented in a simple form which avoids much of the usual length and complexity Many examples and exercises are included

**Lectures on the Theory of Functions of Real Variables** James Pierpont,1905  
*Lectures on the Theory of Functions of Real Variables: Rational numbers* James Pierpont,1906

Mathematics for Engineers and Scientists, Sixth Edition Alan Jeffrey,2004-08-10 Since its original publication in 1969 Mathematics for Engineers and Scientists has built a solid foundation in mathematics for legions of undergraduate science and engineering students It continues to do so but as the influence of computers has grown and syllabi have evolved once again the time has come for a new edition Thoroughly revised to meet the needs of today s curricula Mathematics for Engineers and Scientists Sixth Edition covers all of the topics typically introduced to first or second year engineering students from number systems functions and vectors to series differential equations and numerical analysis Among the most significant revisions to this edition are Simplified presentation of many topics and expanded explanations that further ease the comprehension of incoming engineering students A new chapter on double integrals Many more exercises applications and worked examples A new chapter introducing the MATLAB and Maple software packages Although designed as a textbook with problem sets in each chapter and selected answers at the end of the book Mathematics for Engineers and Scientists Sixth Edition serves equally well as a supplemental text and for self study The author strongly encourages readers to make use of computer algebra software to experiment with it and to learn more about mathematical functions and the operations that it can perform

Functions of Three Real Variables Henry Livingston Coar,1906  
**The Theory of Functions of a Real Variable and the Theory of Fourier's Series** Ernest William Hobson,1921  
The theory of functions of a real variable and the theory of Ernest William Hobson,1927  
*Mathematical Analysis* Nicola Fusco,Paolo Marcellini,Carlo Sbordone,2023-01-01 This work is a textbook on Mathematical Analysis written by expert lecturers in the field This textbook other than the classical differentiation and integration tools for functions of several real variables metric spaces ordinary differential equations implicit function and so on also provides opportunities to go deeper into certain topics among them the Ascoli Arzel theorem the regularity of convex functions in  $R^n$   $L^p$  spaces and absolutely continuous functions all topics that are paramount in modern Mathematical Analysis Other instances include the Weierstrass theorem on polynomial approximation of continuous functions or Peano s existence theorem typically only existence without uniqueness for nonlinear ODEs and systems under general assumptions The content is discussed in an elementary way and at a successive

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**Lectures Introductory to the Theory of Functions of Two Complex Variables** Andrew Russell Forsyth,1914

**Theory and Applications of Differentiable Functions of Several Variables** ,1994 This book explores various topical trends in the theory of differentiable functions of several real variables and its applications Among the subjects covered are imbedding of various spaces of differentiable functions defined on sets in Euclidean space on a sphere and in a polydisc approximation of functions estimates for the norms of various integral operators in weighted space conditions for stabilization of a function to a polynomial sufficient conditions for multipliers construction of unconditional bases in anisotropic spaces existence of entire solutions for quasilinear equations and establishment of an asymptotic formula for the kernels of powers of the resolvent of elliptic operators

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