



mathematics

Special Functions with Applications to Mathematical Physics

Edited by

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Special Functions Of Mathematical Physic

Willi Freeden, Martin Gutting



Special Functions Of Mathematical Physic:

Special Functions Nico M. Temme, 2011-03-01 This book gives an introduction to the classical well known special functions which play a role in mathematical physics especially in boundary value problems Calculus and complex function theory form the basis of the book and numerous formulas are given Particular attention is given to asymptotic and numerical aspects of special functions with numerous references to recent literature provided **The Functions of Mathematical Physics** Harry Hochstadt, 1986-01-01 A modern classic this clearly written incisive textbook provides a comprehensive detailed survey of the functions of mathematical physics a field of study straddling the somewhat artificial boundary between pure and applied mathematics In the 18th and 19th centuries the theorists who devoted themselves to this field pioneers such as Gauss Euler Fourier Legendre and Bessel were searching for mathematical solutions to physical problems Today although most of the functions have practical applications in areas ranging from the quantum theoretical model of the atom to the vibrating membrane some such as those related to the theory of discontinuous groups still remain of purely mathematical interest Chapters One and Two examine orthogonal polynomials with sections on such topics as the recurrence formula the Christoffel Darboux formula the Weierstrass approximation theorem and the application of Hermite polynomials to quantum mechanics Chapter Three is devoted to the principal properties of the gamma function including asymptotic expansions and Mellin Barnes integrals Chapter Four covers hypergeometric functions including a review of linear differential equations with regular singular points and a general method for finding integral representations Chapters Five and Six are concerned with the Legendre functions and their use in the solutions of Laplace's equation in spherical coordinates as well as problems in an n dimension setting Chapter Seven deals with confluent hypergeometric functions and Chapter Eight examines at length the most important of these the Bessel functions Chapter Nine covers Hill's equations including the expansion theorems *Special Functions of Mathematical Physics* NIKIFOROV, UVAROV, 2013-05-08 With students of Physics chiefly in mind we have collected the material on special functions that is most important in mathematical physics and quantum mechanics We have not attempted to provide the most extensive collection possible of information about special functions but have set ourselves the task of finding an exposition which based on a unified approach ensures the possibility of applying the theory in other natural sciences since it provides a simple and effective method for the independent solution of problems that arise in practice in physics engineering and mathematics For the American edition we have been able to improve a number of proofs in particular we have given a new proof of the basic theorem 3 This is the fundamental theorem of the book it has now been extended to cover difference equations of hypergeometric type 12 13 Several sections have been simplified and contain new material We believe that this is the first time that the theory of classical orthogonal polynomials of a discrete variable on both uniform and nonuniform lattices has been given such a coherent presentation together with its various applications in physics Formulas and Theorems for the Special Functions

of Mathematical Physics Wilhelm Magnus, Fritz Oberhettinger, 1949 **Special Functions of Mathematical Physics** Arnold F. Nikiforov, Vasilii Borisovich Uvarov, 1988 Special Functions James D. Talman, 1968 In theoretical physics routine use is made of many properties such as recurrence relations and addition theorems of the special functions of mathematical physics These properties are for the most part classical and their derivations are usually based on the methods of classical analysis The purpose of this book is to show how these functions are also related to the theory of group representations and to derive their important properties from this theory This approach elucidates the geometric background for the existence of the relations among the special functions Moreover the derivations may be more rationally motivated than are the usual complicated manipulations of power series integral representations and so on I hope that the reader may find in this book reasonably simple derivations of many of the relations commonly used in theoretical physics for which the proofs may otherwise be somewhat unfamiliar In order that the book be fairly self contained approximately the first third delves into a preliminary discussion of such topics as Lie groups group representations and so on The remaining chapters are devoted to various groups and the special functions are discussed in conjunction with the group with which it is associated Because of the inclusion of the introductory material the only prerequisite is a reasonable knowledge of linear algebra The original impetus for the writing of this book was provided by a lecture course given by Professor Eugene P Wigner a number of years ago I am greatly indebted to Professor Wigner for his suggestion that I pursue the subject of the lectures further and for his continued friendly interest and advice in the work I wish to thank Dr Trevor Luke for carefully checking the manuscript I also wish to thank my wife whose encouragement contributed greatly to the writing of the book *The Special Functions and Their Approximations* Yudell L. Luke, 1969 These volumes are designed to provide scientific workers with a self contained and unified development for many of the mathematical functions which arise in applied problems as well as the attendant mathematical theory for their approximations These functions are often called the special functions of mathematical physics or more simply the special functions **Special Functions of Mathematical Physics and Chemistry** Ian Naismith Sneddon, 1966 *Special Functions of Mathematical (Geo-)Physics* Willi Freeden, Martin Gutting, 2013-02-15 Special functions enable us to formulate a scientific problem by reduction such that a new more concrete problem can be attacked within a well structured framework usually in the context of differential equations A good understanding of special functions provides the capacity to recognize the causality between the abstractness of the mathematical concept and both the impact on and cross sectional importance to the scientific reality The special functions to be discussed in this monograph vary greatly depending on the measurement parameters examined gravitation electric and magnetic fields deformation climate observables fluid flow etc and on the respective field characteristic potential field diffusion field wave field The differential equation under consideration determines the type of special functions that are needed in the desired reduction process Each chapter closes with exercises that reflect significant topics mostly in computational applications As a result readers are not

only directly confronted with the specific contents of each chapter but also with additional knowledge on mathematical fields of research where special functions are essential to application All in all the book is an equally valuable resource for education in geomathematics and the study of applied and harmonic analysis Students who wish to continue with further studies should consult the literature given as supplements for each topic covered in the exercises

Special Functions

George E. Andrews, Richard Askey, Ranjan Roy, 1999 An overview of special functions focusing on the hypergeometric functions and the associated hypergeometric series

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