

## Trigonometric Identities

### Quotient Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

### Reciprocal Identities

$$\cot \theta = \frac{1}{\tan \theta}$$

$$\csc \theta = \frac{1}{\sin \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

### Pythagorean Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

### Sum Identities Addition Formulas

$$\sin(a + b) = \sin a \cos b + \cos a \sin b$$

$$\cos(a + b) = \cos a \cos b - \sin a \sin b$$

$$\tan(a + b) = \frac{\tan a + \tan b}{1 - \tan a \tan b}$$

### Difference Identities Subtraction Formulas

$$\sin(a - b) = \sin a \cos b - \cos a \sin b$$

$$\cos(a - b) = \cos a \cos b + \sin a \sin b$$

$$\tan(a - b) = \frac{\tan a - \tan b}{1 + \tan a \tan b}$$

### Double Angle Formulas

$$\sin 2a = 2 \sin a \cos a$$

$$\cos 2a = \cos^2 a - \sin^2 a$$

$$= 2 \cos^2 a - 1$$

$$= 1 - 2 \sin^2 a$$

$$\tan 2a = \frac{2 \tan a}{1 - \tan^2 a}$$

### Co-function Identities

$$\cos\left(\frac{\pi}{2} - \theta\right) = \sin \theta$$

$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos \theta$$

$$\cot\left(\frac{\pi}{2} - \theta\right) = \tan \theta$$

$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot \theta$$

$$\csc\left(\frac{\pi}{2} - \theta\right) = \sec \theta$$

$$\sec\left(\frac{\pi}{2} - \theta\right) = \csc \theta$$

### Even-Odd Identities

$$\sin(-\theta) = -\sin \theta$$

$$\cos(-\theta) = \cos \theta$$

$$\tan(-\theta) = -\tan \theta$$

$$\csc(-\theta) = -\csc \theta$$

$$\sec(-\theta) = \sec \theta$$

$$\cot(-\theta) = -\cot \theta$$

### Half-Angle Formulas

$$\sin\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1 - \cos \theta}{2}}$$

$$\cos\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1 + \cos \theta}{2}}$$

$$\tan\left(\frac{\theta}{2}\right) = \frac{1 - \cos \theta}{\sin \theta}$$

$$= \frac{\sin \theta}{1 + \cos \theta}$$

$$= \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}}$$

### Sum-to-Product Formulas

$$\sin a + \sin b = 2 \sin\left(\frac{a+b}{2}\right) \cos\left(\frac{a-b}{2}\right)$$

$$\sin a - \sin b = 2 \sin\left(\frac{a-b}{2}\right) \cos\left(\frac{a+b}{2}\right)$$

$$\cos a + \cos b = 2 \cos\left(\frac{a+b}{2}\right) \cos\left(\frac{a-b}{2}\right)$$

$$\cos a - \cos b = -2 \sin\left(\frac{a+b}{2}\right) \sin\left(\frac{a-b}{2}\right)$$

### Product-to-Sum Formulas

$$\sin a \sin b = \frac{1}{2} [\cos(a - b) - \cos(a + b)]$$

$$\cos a \cos b = \frac{1}{2} [\cos(a - b) + \cos(a + b)]$$

$$\sin a \cos b = \frac{1}{2} [\sin(a + b) + \sin(a - b)]$$

$$\cos a \sin b = \frac{1}{2} [\sin(a + b) - \sin(a - b)]$$

# Formulas Theorems For The Special Func

**Kwong-Tin Tang**



## **Formulas Theorems For The Special Func:**

### **Formulas and Theorems for the Special Functions of Mathematical Physics** Wilhelm Magnus, Fritz

Oberhettinger, Raj Pal Soni, 2013-11-11 This is a new and enlarged English edition of the book which under the title Formeln und Satze fur die Speziellen Funktionen der mathematischen Physik appeared in German in 1946 Much of the material part of it unpublished did not appear in the earlier editions We hope that these additions will be useful and yet not too numerous for the purpose of locating with ease any particular result Compared to the first two German editions a change has taken place as far as the list of references is concerned They are generally restricted to books and monographs and accommodated at the end of each individual chapter Occasional references to papers follow those results to which they apply The authors felt a certain justification for this change At the time of the appearance of the previous edition nearly twenty years ago much of the material was scattered over a number of single contributions Since then most of it has been included in books and monographs with quite exhaustive bibliographies For information about numerical tables the reader is referred to Mathematics of Computation a periodical published by the American Mathematical Society Handbook of Mathematical Functions with formulas graphs and mathematical tables National Bureau of Standards Applied Mathematics Series 55 1964 1046 pp Government Printing Office Washington D C and FLETCHER MILLER ROSENHEAD Index of Mathematical Tables Addison Wesley Reading Mass There is a list of symbols and abbreviations at the end of the book Formulas and Theorems for the Special Functions of Mathematical Physics Special Functions of Mathematical Physics Ronald Gross, 1966

Mathematical Methods for Engineers and Scientists 3 Kwong-Tin Tang, 2006-11-30 Pedagogical insights gained through 30 years of teaching applied mathematics led the author to write this set of student oriented books Topics such as complex analysis matrix theory vector and tensor analysis Fourier analysis integral transforms ordinary and partial differential equations are presented in a discursive style that is readable and easy to follow Numerous examples completely worked out together with carefully selected problem sets with answers are used to enhance students understanding and manipulative skill The goal is to make students comfortable in using advanced mathematical tools in junior senior and beginning graduate courses

**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 **Formulas and Theorems for the Special Functions of Mathematical Physics** Wilhelm Magnus, 1966 **Special Functions & Their Applications**

N. N. Lebedev, 2012-04-30 Famous Russian work discusses the application of cylinder functions and spherical harmonics gamma function probability integral and related functions Airy functions hypergeometric functions more Translated by Richard Silverman Special Functions and Their Approximations: v. 2 Yudell L. Luke, 1969 Special Functions

and Their Approximations v 2      Obtaining Generating Functions Elna B. McBride, 2012-12-06 This book is an introduction to the study of methods of obtaining generating functions It is an expository work at the level of the beginning graduate student The first part of Chapter I gives the reader the necessary definitions and basic concepts The fundamental method of direct summation is explained and illustrated The second part of Chapter I deals with the methods developed by Rainville These methods are based principally on inventive manipulation of power series Weisner's group theoretic method is explained in detail in Chapter II and is further illustrated in Chapter III When this method is applicable it yields a set of at least three generating functions In Chapter II for the Laguerre polynomials six generating functions were found Truesdell's method is studied in Chapter IV For a given set of functions  $f(z)$  the success of this method depends on the existence of certain transformations If  $f(z)$  can be transformed into  $F(z)$  such that  $f(z) = F(z) + 1$  or if  $f(z)$  can be transformed into  $G(z)$  such that  $f(z) = G(z) + 1$  then from each transformed function a generating function can be obtained Truesdell's method for obtaining the transformed functions does not require any ingenuity on the user's part Truesdell has shown how these simple results may be exploited to generate more complicated results by means of specified systematic and general processes His method of obtaining generating functions is only one of these results      *The Collected Works of Eugene Paul Wigner* Eugene Paul Wigner, 2001-09-11 Not only was E. P. Wigner one of the most active creators of 20th century physics he was also always interested in expressing his opinion in philosophical political or sociological matters This volume of his collected works covers a wide selection of his essays about science and society about himself and his colleagues Annotated by J. Mehra this volume will become an important source of reference for historians of science and it will be pleasant reading for every physicist interested in forming ideas in modern physics      **Intermediate Electromagnetic Theory** Joseph V. Stewart, 2001 This invaluable text has been developed to provide students with more background on the applications of electricity and magnetism particularly with those topics which relate to current research For example waveguides both metal and dielectric are discussed more thoroughly than in most texts because they are an important laboratory tool and important components of modern communications In a sense this book modernizes the topics covered in the typical course on electricity and magnetism It provides not only solid background for the student who chooses a field which uses techniques requiring knowledge of electricity and magnetism but also general background for the physics major      **The H-Function** A.M. Mathai, Ram Kishore Saxena, Hans J. Haubold, 2009-10-10 The H function or popularly known in the literature as Fox's H function has recently found applications in a large variety of problems connected with reaction diffusion reaction diffusion engineering and communication fractional differential and integral equations many areas of theoretical physics statistical distribution theory etc One of the standard books and most cited book on the topic is the 1978 book of Mathai and Saxena Since then the subject has grown a lot mainly in the fields of applications Due to popular demand the authors were requested to grade and bring out a revised edition of the 1978 book It was decided to bring out a new book mostly dealing with recent

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**Complex Differential and Difference Equations** Galina Filipuk,Alberto Lastra,Sławomir Michalik,Yoshitsugu Takei,Henryk Żołądek,2019-11-18 With a balanced combination of longer survey articles and shorter peer reviewed research level presentations on the topic of differential and difference equations on the complex domain this edited volume presents an up to date overview of areas such as WKB analysis summability resurgence formal solutions integrability and several algebraic aspects of differential and difference equations

**A Generalization of Bohr-Mollerup's Theorem for Higher Order Convex Functions** Jean-Luc Marichal,Naïm Zenaïdi,2022-07-06 In 1922 Harald Bohr and Johannes Mollerup established a remarkable characterization of the Euler gamma function using its log convexity property A decade later Emil Artin investigated this result and used it to derive the basic properties of the gamma function using elementary methods of the calculus Bohr Mollerup s theorem was then adopted by Nicolas Bourbaki as the starting point for his exposition of the gamma function This open access book develops a far reaching generalization of Bohr Mollerup s theorem to higher order convex functions along lines initiated by Wolfgang Krull Roger Webster and some others but going considerably further than past work In particular this generalization shows using elementary techniques that a very rich spectrum of functions satisfy analogues of several classical properties of the gamma function including Bohr Mollerup s theorem itself Euler s reflection formula Gauss multiplication theorem Stirling s formula and Weierstrass canonical factorization The scope of the theory developed in this work is illustrated through various examples ranging from the gamma function itself and its variants and generalizations q gamma polygamma multiple gamma functions to important special functions such as the Hurwitz zeta function and the generalized Stieltjes constants This volume is also an opportunity to honor the 100th anniversary of Bohr Mollerup s theorem and to spark the interest of a large number of researchers in this beautiful theory

**Formulas and**

**Theorems for the special Functions of Mathematics** W. Magnus,1966      Spectral Theory of Automorphic Functions A. B. Venkov,1983      **Functional Analytic Methods for Evolution Equations** Giuseppe Da Prato,Peer Christian Kunstmann,Irena Lasiecka,Alessandra Lunardi,Roland Schnaubelt,Lutz Weis,2004-08-30 This book consists of five introductory contributions by leading mathematicians on the functional analytic treatment of evolutions equations In particular the contributions deal with Markov semigroups maximal  $L^p$  regularity optimal control problems for boundary and point control systems parabolic moving boundary problems and parabolic nonautonomous evolution equations The book is addressed to PhD students young researchers and mathematicians doing research in one of the above topics      *Lectures on Functional Equations and Their Applications* J. Aczel,Hansjorg Oser,2006-02-01 Numerous detailed proofs highlight this treatment of functional equations Starting with equations that can be solved by simple substitutions the book then moves to equations with several unknown functions and methods of reduction to differential and integral equations Also includes composite equations equations with several unknown functions of several variables vector and matrix equations more 1966 edition      Special Functions of Mathematical Physics and Chemistry Ian Naismith Sneddon,1956

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