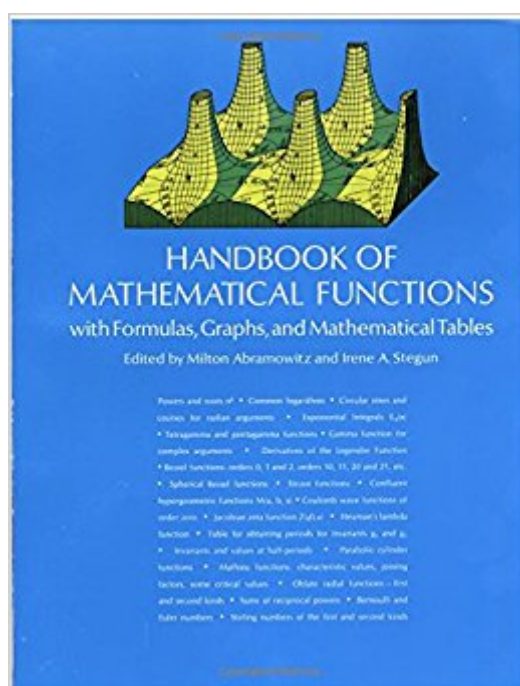


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# Handbook Of Mathematical Functions: With Formulas, Graphs, And Mathematical Tables (Dover Books On Mathematics)



## Synopsis

Despite the increasing use of computers, the basic need for mathematical tables continues. Tables serve a vital role in preliminary surveys of problems before programming for machine operation, and they are indispensable to thousands of engineers and scientists without access to machines.

Because of automatic computers, however, and because of recent scientific advances, a greater variety of functions and a higher accuracy of tabulation than have been available until now are required. In 1954, a conference on mathematical tables, sponsored by M.I.T. and the National Science Foundation, met to discuss a modernization and extension of Jahnke and Emde's classical tables of functions. This volume, published 10 years later by the U.S. Department of Commerce, is the result. Designed to include a maximum of information and to meet the needs of scientists in all fields, it is a monumental piece of work, a comprehensive and self-contained summary of the mathematical functions that arise in physical and engineering problems. The book contains 29 sets of tables, some to as high as 20 places: mathematical constants; physical constants and conversion factors (6 tables); exponential integral and related functions (7); error function and Fresnel integrals (12); Bessel functions of integer (12) and fractional (13) order; integrals of Bessel functions (2); Struve and related functions (2); confluent hypergeometric functions (2); Coulomb wave functions (2); hypergeometric functions; Jacobian elliptic and theta functions (2); elliptic integrals ">

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## Book Information

Series: Dover Books on Mathematics

Paperback: 1046 pages

Publisher: Dover Publications; 0009-Revised edition (June 1, 1965)

Language: English

ISBN-10: 0486612724

ISBN-13: 978-0486612720

Product Dimensions: 8 x 1.6 x 10.5 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review:    4.7 out of 5 stars    37 customer reviews

Best Sellers Rank: #327,901 in Books (See Top 100 in Books)    #44 in Books > Science & Math > Mathematics > Pure Mathematics > Functional Analysis    #76 in Books > Science & Math > Mathematics > Reference

## Customer Reviews

This book is great to have around, it offers tons of solutions to integrals, series, functions, etc... this is a must have for every scientist or engineer, however there are a lot of numerical tables which are by now completely obsolete, for instance Bessel function values, most of those tables are easily and more accurately calculated by Matlab. What is really useful in this book are not the numerical but the analytical solutions to many, many functions. Even today with software like Mathematica this book will still be useful, specially in those cases in which the software just doesn't give you the correct or expected answer. I'm an EE grad student, and this book by Abramowitz coupled with "Table of Integrals, Series, and Products, Eighth Edition" have provided me with many useful analytic solutions to very difficult integrals and functions which appear in engineering, I highly recommend both books.

Wanna know  $e^x$  for 10000 values of  $x$ ? this is the book for you. it's also got a lot of awesome stuff.  
10/10

This wonderful volume is one of four works I always keep in digital or desk drawer reach while reading/studying/ referencing any other math book or journal article, the complete list being:-- "Encyclopedia Of Mathematics (Science Encyclopedia)"-- "The Princeton Companion to Mathematics"-- "Handbook of Mathematical Functions: with Formulas, Graphs, and Mathematical Tables (Dover Books on Mathematics)"-- "NIST Handbook of Mathematical Functions" (Being of course the 2010 update of the Abramowitz classic above). Given these four, there is hardly a topic from among the current 495 math fields of study that isn't at least explained in enough detail to save LOTS of time on link expeditions. At minimum, these give head starts on alphabetized keywords that will quickly fill holes in any research project, class, or syllabus.

Great text for anyone in an engineering, science or math field. Although most personal computers have processors capable of evaluating these tables, there is still no comparison to being able to reference the value instantly. Especially useful for quick checks. I can always get more accurate results online or with interpolation, but I bask in the answer helps you know if the extra work is required. Overall the book is put together well. The list of special functions is impressive and it also contains many other useful tables.

This book is a well-known classic which deserves all praises. I used the volume available in my

work's library during many years. However, I retired recently and rushed to get my own copy. There seems to be other similar books, some with added material, but this Handbook is good enough. Carlos Alberto Dantas Moura

Thorough derivations of equations involved with advanced mathematical functions. Wonderful description of interpolation techniques for application against the hundreds of pages of various mathematical tables.

It's like a dictionary. When you want an answer for an equation, it's there, but don't look for tutorials here. Dead necessary before Mathematica and symbolic solvers.

My granddaughter, a university student, wanted her own copy of this old book, which I have had for years. She and her friends were fascinated by the tables, and my account of how we used them before scientific calculators were available to everyone. This is still a useful reference, with lots of formulas. I'll probably get a more recent handbook, but this was a good deal.

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