Handbook of Mathematical Formulas and Integrals

By Alan Jeffrey

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If there is a formula to solve a given problem in mathematics, you will find it in Alan Jeffrey's **Handbook of Mathematical Formulas and Integrals**. Thanks to its unique thumb-tab indexing feature, answers are easy to find based upon the type of problem they solve. The **Handbook** covers important formulas, functions, relations, and methods from algebra, trigonometric and exponential functions, combinatorics, probability, matrix theory, calculus and vector calculus, both ordinary and partial differential equations, Fourier series, orthogonal polynomials, and Laplace transforms. Based on Gradshteyn and Ryzhik's **Table of Integrals, Series, and Products, Fifth Edition** (edited by Jeffrey), but far more accessible and written with particular attention to the needs of students and practicing scientists and engineers, this book is an essential resource. Affordable and authoritative, it is the first place to look for help and a rewarding place to browse.

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Editorial Review

Review
The title…says it all: a compendium, of tables and formulas from various numerically and computationally orientated areas of mathematics, as well as extremely telegraphic summaries of some of the ideas involved. Recommended [for] upper-division undergraduates through professionals.
-CHOICE, 2005

From the Back Cover
The solution of mathematical problems requires the successful manipulation of a great variety of functions, the use of general mathematical results and the evaluation of integrals. The purpose of this *Handbook is to simplify this task.*
This Handbook provides reference material that helps simplify the solution of a problem, both by easing the task of locating important functional relationships and also by removing the tedium of evaluating most of the integrals that arise.
*This **Second Edition is an enhancement of the first. It covers important formulas, functions, relations and methods from algebra, trigonometric and exponential functions, combinatorics, probability, matrix theory, calculus and vector calculus, both ordinary and partial differential equations, Fourier Series, orthogonal polynomials, Laplace and Fourier transforms. Additional material has been added such as proof by mathematical induction, the acceleration of convergence of series, and properties of spherical Bessel functions.***

ADDITIONAL FEATURES INCLUDE:

* The integrals, functions and mathematical results used in most applications of mathematics are easily located, and they are presented in the most common form instead of the standard form that usually requires manipulation.
* Tables of Laplace and Fourier transform pairs have been simplified by the inclusion of the most useful results.
* A new section on numerical approximation gives information on interpolation, PadE approximation and finite difference approximations to ordinary and partial derivatives.
* A new section on the Z-transform
* Equations are validated with Mathematica.r
* The thumb-tab indexing feature provides an easy reference system.

The Handbook is based on Gradshteyn and Ryzhik's Table of Integrals, Series, and Products (Academic Press), edited by Alan Jeffrey. Alan is a Professor of Engineering Mathematics at the University of Newcastle upon Tyne, England, and Adjunct Professor at the University of Delaware and his distinguished career includes work at New York University, Stanford University, and University of Wisconsin.

About the Author
By Dr. Alan Jeffrey

Users Review

From reader reviews:

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