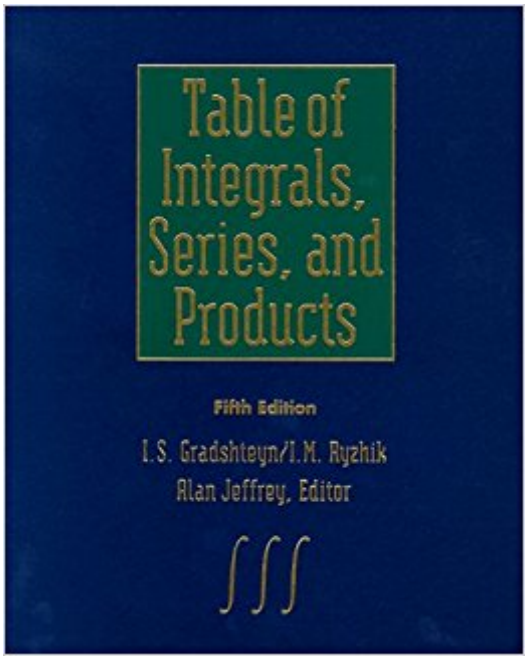
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Table Of Integrals, Series, And Products, Fifth Edition



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Synopsis

This handbook is the fifth edition of one of Academic Press's all-time best-sellers. The volume, which contains nearly 20,000 formulae for integrals, sums, series, products, and special functions, is the major reference source for integrals in the English language. It is an essential reference for mathematicians, scientists, and engineers, who rely on it when identifying and subsequently solving extremely complex problems. * Includes hundreds of new entries, all checked where possible using Mathematica (c)/Maple V (c)* Corrections from the Fourth Edition are checked and incorporated* Features expanded sections on special functions and orthogonal polynomials* Contains greatly expanded tables of Laplace and Fourier transforms* Presents Mellin transforms in the section on integral functions* Provides new results on Riemann zeta functions* Carefully preserves original numbering system for complete compatibility with previous editions* Features an expanded bibliography

Book Information

Hardcover: 1204 pages

Publisher: Academic Press; 5th edition (January 15, 1994)

Language: English

ISBN-10: 012294755X

ISBN-13: 978-0122947551

Product Dimensions: 9.6 x 7.8 x 2.3 inches

Shipping Weight: 5.5 pounds

Average Customer Review: 3.9 out of 5 stars 12 customer reviews

Best Sellers Rank: #580,283 in Books (See Top 100 in Books) #131 inÃ Â Books > Science & Math > Mathematics > Reference #6810 inÃ Â Books > Textbooks > Science & Mathematics > Mathematics

Customer Reviews

Very useful CD-ROM for all numerically inclined scientists and engineers. Produces TeX source code for selected formulas. Multiplatform-ROM for Mac, Windows, and UNIX. --This text refers to an out of print or unavailable edition of this title.

"The integrals are very useful, but this book includes many other features that will be helpful to the reader, especially graduate students. The sections on Hermite and Legendre polynomials are especially helpful for students of Electricity and Magnetism, Quantum Mechanics, and Mathematical

physics (they won’t have to hunt in several books to find what they need)."Barry Simon, California Institute of Technology"This book is to the CRC Mathematical Tables as the unabridged Oxford English Dictionary is to Webster’s Collegiate. Besides being big, it’s easy to find things in, because of the way the integrals are organized into classes...It really helped me through grad school."Phil Hobbs, Review --This text refers to an out of print or unavailable edition of this title.

It has taken me years to appreciate buying this expensive book (go the used route for sure). But there are a few integrals I’ve come across in my line of work that would have had me slaving for hours/days to find the solution. I would just remember this book and voila, the easy to follow chapters lead me straight to the answer AND the reference. This has happened only 4 times in something like 5 years, but it has paid for itself in my eyes.

After a 7 year wait, the 7th Edition of Gradshteyn & Ryzhik has finally been released! Other reviews speak to the tremendous utility of this classic. It is worth noting that the latest edition now INCLUDES a fully-searchable CD-ROM version of the book. However, I did notice a bug when using this on Windows XP SP2 with FireFox 2.0.0.2. (The CD-ROM is optimized for the Netscape browser and CANNOT be used with Internet Explorer.) Although I am able to click on the "Contents" button and navigate through the sections; and although I am able to go back to the title page by clicking on "Home

This is a must-have book for the practicing mathematical engineer. It is amazing how many practical functions actually have closed-form integrals. You will still need to transform a lot of things, but that’s just one of the humdrum parts of your job that needs done.

This book is a great resource for anyone working in the field of science and technology. The organization of the content can be improved.

This is the best and largest compilation of integrals and their solutions in existence. Whatever integral you are trying to solve, odds are someone else has already solved it and the answer is in this book. If you regularly come across integrals in your work or play (yes, IT IS FUN for some people), this book is an absolute must. Also a great reference for info on special functions, infinite series, jacobians, vectors, rules of integration, and more.

I have the book version of this title and it is a great and incredibly useful book so I decided to buy the CD version to have it always available on my laptop and desktop. You can imagine my surprise and disappointment when I discovered that the software included in the CD is not compatible with Linux! This CD uses an obsolete piece of software (the install instruction for Windows refer to Windows 95!) that has no equivalent (up to my knowledge) in the Linux environment.I wrote to the Costumer Service of AP but got no answer.Hopefully they will get to their sense and do a decent version 2 of this product. By now it is pure junk.

Gradshteyn and Ryzhik is to the CRC Mathematical Tables as the unabridged Oxford English Dictionary is to Webster's Collegiate. Besides being big, it's easy to find things in, because of the way the integrals are organized into classes. Like any other integral tables, you'll probably have to make a change of variables or two to get your problem into a standard form, but since the classes are well covered, you have a big target to shoot for, so your chances of finding your integral tabulated are excellent.An unscientific sampling indicates that this book has remarkably few errors. It really helped me through grad school.

The paper version is a real touchstone for the practice of all manner of applied mathematics. The CD-ROM version belongs in the discount bin. Here is why:1) The CD-ROM is edition 5; but edition 6 has been out for 4 years.2) The DynaText software, which is needed to read/browse/search the book, is showing signs of age. It works fine on the computers of a decade ago but not necessarily on the machines of today. See the review of J.F.Groote.The product is advertised as working on Macs but will not work on most Macs. Specifically, it does not seem to work on either G4 or G5 hardware with OS X, even under the so-called "Classic" mode. I believe that the problem is that the browser is shipped as an executable that requires a specific architecture.It is usable under Windows, but you might need to use one of the backwards-compatibility options to run the installer.It will not apparently run under any form of Linux, the most recent (and rapidly becoming the most popular) transmogrification of Unix. Again, DynaText is put on the CD-ROM as a binary executable; if you are not using SunOS 4 or 5, Solaris or SGI IRIX 5.2 then you can not use this product.

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