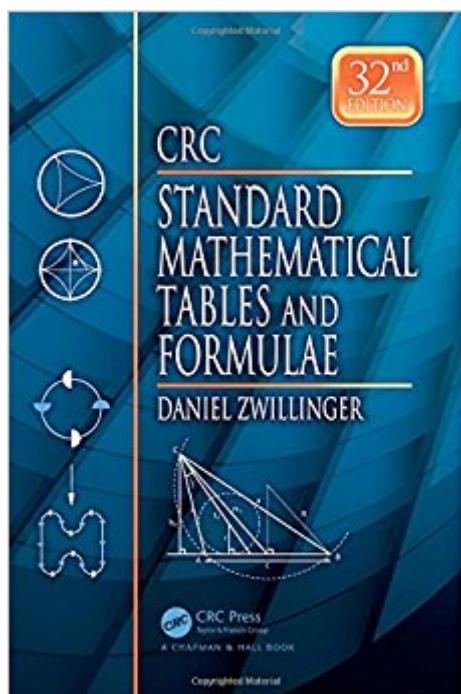


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# **CRC Standard Mathematical Tables And Formulae, 32nd Edition (Advances In Applied Mathematics)**



## Synopsis

With over 6,000 entries, CRC Standard Mathematical Tables and Formulae, 32nd Edition continues to provide essential formulas, tables, figures, and descriptions, including many diagrams, group tables, and integrals not available online. This new edition incorporates important topics that are unfamiliar to some readers, such as visual proofs and sequences, and illustrates how mathematical information is interpreted. Material is presented in a multisectional format, with each section containing a valuable collection of fundamental tabular and expository reference material. New to the 32nd Edition A new chapter on Mathematical Formulae from the Sciences that contains the most important formulae from a variety of fields, including acoustics, astrophysics, epidemiology, finance, statistical mechanics, and thermodynamics New material on contingency tables, estimators, process capability, runs test, and sample sizes New material on cellular automata, knot theory, music, quaternions, and rational trigonometry Updated and more streamlined tables Retaining the successful format of previous editions, this comprehensive handbook remains an invaluable reference for professionals and students in mathematical and scientific fields.

## Book Information

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## Customer Reviews

Praise for Previous Editions: An excellent reference resource for all readership levels, this guide offers easy navigation through a browseable table of contents and an extensive index. It follows a natural progression for those studying the subject. It is logical, useful, and affordable. Summing up: Highly Recommended. *CHOICE*, September 2003 The 31st Edition of the CRC Standard

Mathematical Tables and Formulae is, without a doubt, the new and improved bible of mathematics. It is an outstanding reference book, containing more than 30 new sections, covering more than 3,000 items, and including tables, properties, etc. The index has been revamped to make it faster and easier to find results. Author Daniel Zwillinger has done an excellent job keeping the same successful format that has characterized earlier editions of the handbook. Mathematicians will find this handbook indispensable an absolute must-have desk reference. The ready access of tables that may be needed in mathematical endeavors will make life much easier for engineers, scientists, mathematicians, or even for those who are in the process of studying these and related subjects. John Vacca, former computer security official for NASA's space station program (Freedom), The Barnes & Noble Review

Daniel Zwillinger has more than 25 years of proven technical expertise in numerous areas of engineering and the physical sciences. He earned a Ph.D. in applied mathematics from the California Institute of Technology.

As a kid, I had an old copy of the 10th edition. I was particularly interested in the tables of squares and cubes, and used to search through those tables for patterns, such as  $3543^3 = 44474744007$ . Today, though, anyone can get free copies of Perl, Python, or Pascal and generate many of these tables instantly. Much of it is available online, in places like MathWorld, Wikipedia, WolframAlpha, and the Wolfram Demonstrations Project. However, as a kid, I flipped through the available books, and this was one of the books with pictures. I didn't understand it, but I knew that these things had something to do with these pictures. When I hit cartesian coordinates in math class, I remembered the pictures, and then I was off and running to be a mathematician. There is much in this book to catch the eyes of a child. Same goes for earlier editions. Many of the online sources, such as the Online Encyclopedia of Integer Sequences, have a core sampling of material in the book. Beautifully bound (unlike the 30th edition). There are a few poor pictures, such as the Fano plane on page 171, and the knots on page 723. A page of famous graphs would have been helpful. Various useful sites like Wolfram Functions Site are not mentioned. Only one page is given to recreational math, and not a particularly useful page. Still, this is overall a useful book, and very flippable. Recommended.

Bought this to replace my 35+ year-old table from my undergraduate years (finally fell apart at the seams) and so far, CRC continues to be the best at putting together these types of compendiums (I still use the old "rubber" book (as my preceptor in grad school called it) (he confused the heck out of

me until I remembered CRC means Chemical Rubber Company) daily), even though for some of them they now have DVD versions.

Always a great reference - my first copy cost \$2 - that was in 1960. Service superb. No problems.

I've had a copy of this book's predecessor (14th Edition) since the mid 1960s. As a student, as a working engineer, and as a fan of math puzzles, I have often opened the book. The new edition doesn't have the extensive tables the old edition had because such tables can be easily generated as needed. However, I'm still keeping the old edition. The editors and content have changed over the years, but any edition would prove useful. I highly recommend it.

I still have my copy of a CRC Math Tables that I used in college. I used them in my classroom in the early days of my teaching career for their more detailed tables. For example: Trig tables to the nearest minute. Of course with today's calculator tech a lot of what I used this book for has become redundant, but it is a wonderful source for anyone studying mathematics. I purchased this one for my daughter's high school graduation as she is going to be studying math in college.

Covers many topics; very detail; very complete - Excellent resource/reference

Gift for my grand daughter math major in College. I own a copy two editions old sooo much has moved on!!

This is a massive book of reference for the beginner and the expert in the realm of Mathematics. In a time when Logarithms are unknown to the average High School student, and the intricacies of the slide rule have disappeared with the ability to estimate the answers to maths problems, this purchase has stirred the heart of a 70 year old mathematics junkie. From the formula for the Volume of a truncated cone, to Euclidean Geometrical Theorems, they are all there. It is a work of beauty, and rare wonder. My High School Pure Maths Teacher all those years ago drummed much of this into an unwilling head. The pursuit of the fairer sex ensured much of his drumming was lost in the heat of the opening stanzas of the Viet Nam War. My discovery and experience of the beauty of mathematical communication has been made complete with this book. Ah! Control Theory, Risk Analysis and Decision Rules have with age replaced the ache of the 18 year old, with the wiser and slower head of the 70 year old. The beauty remains in both, but that of the discoveries I have made

in this book will stay with me now the former distractions of youth have passed. And then if your calculator breaks on the morning of the great examination, maybe then youth will rediscover....

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