

Special Integrals of Gradshteyn and Ryzhik: the Proofs - Volume II (Chapman & Hall/CRC Monographs and Research Notes in Mathematics)

By Victor H. Moll



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#### A Guide to the Evaluation of Integrals

**Special Integrals of Gradshetyn and Ryzhik: the Proofs** provides selfcontained proofs of a variety of entries in the frequently used table of integrals by I.S. Gradshteyn and I.M. Ryzhik. The book gives the most elementary arguments possible and uses *Mathematica*<sup>®</sup> to verify the formulas. You will discover the beauty, patterns, and unexpected connections behind the formulas.

**Volume II** collects 14 papers from *Revista Scientia* covering elliptic integrals, the Riemann zeta function, the error function, hypergeometric and hyperbolic functions, Bessel-K functions, logarithms and rational functions, polylogarithm functions, the exponential integral, and Whittaker functions. Many entries have a variety of proofs that can be evaluated using a symbolic language or point to the development of a new algorithm.

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About the Author

**Victor H. Moll** is a professor in the Department of Mathematics at Tulane University. His research interests include special functions, number theory, and symbolic computation.

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