

(Almost) impossible integrals, sums, and series /

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Electronic books

Monografía

This book contains a multitude of challenging problems and solutions that are not commonly found in classical textbooks. One goal of the book is to present these fascinating mathematical problems in a new and engaging way and illustrate the connections between integrals, sums, and series, many of which involve zeta functions, harmonic series, polylogarithms, and various other special functions and constants. Throughout the book, the reader will find both classical and new problems, with numerous original problems and solutions coming from the personal research of the author. Where classical problems are concerned, such as those given in Olympiads or proposed by famous mathematicians like Ramanujan, the author has come up with new, surprising or unconventional ways of obtaining the desired results. The book begins with a lively foreword by renowned author Paul Nahin and is accessible to those with a good knowledge of calculus from undergraduate students to researchers, and will appeal to all mathematical puzzlers who love a good integral or series

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Título: (Almost) impossible integrals, sums, and series Cornel Ioan Valean

Editorial: Cham, Switzerland Springer [2019]

Descripción física: 1 online resource

Mención de serie: Problem books in mathematics

Bibliografía: Includes bibliographical references and index

Contenido: Intro; Foreword; Preface; Contents; 1 Integrals; 1.1 A Powerful Elementary Integral; 1.2 A Pair of Elementary Logarithmic Integrals We Might Find Very Useful for Solving the Problems in the Book; 1.3 Four Logarithmic Integrals Strongly Connected with the League of Harmonic Series; 1.4 Two Very Useful Classical Logarithmic Integrals That May Arise in the Calculation of Some Tough Integrals and Series; 1.5 A Couple of Practical Definite Integrals Expressed in Terms of the Digamma Function; 1.6 A Useful Special Generalized Integral Expressed in Terms of the Polylogarithm Function 1.7 Two Little Tricky Classical Logarithmic Integrals with log2(1-x) and log2(1+x); 1.9 A Darn Integral in Disguise (Possibly Harder Than It Seems to Be?), an Integral with Two Squared Logarithms on the Half of the Unit Interval; 1.10 The Evaluation of a Class of Logarithmic Integrals Using a Slightly Modified Result from Table of Integrals, Series and Products by I. S. Gradshteyn and I.M. Ryzhik Together with a Series Result Elementarily Proved by Guy Bastien 1.16 A Double Integral and a Triple Integral, Beautifully Connected with the Advanced Harmonic Series1.17 Let's Take Two Double Logarithmic Integrals with Beautiful Values Expressed in Terms of the Riemann Zeta Function; 1.18

Integrals Containing the Inverse Tangent Function and the Logarithmic Function; 1.19 Interesting Integrals Involving the Inverse Tangent Function and Dilogarithm Function; 1.20 More Interesting Integrals Involving the Inverse Tangent Function and the Logarithmic Function: The First Part 1.21 More Interesting Integrals Involving the Inverse Tangent Function and the Logarithmic Function: The Second Part1.22 Challenging Integrals Involving arctan(x), log(x), log(1-x), Li2(x), and Li2(x2); 1.23 Two More Special Challenging Integrals Involving arctan(x), log(x), log(1+x), and Li2(-x); 1.24 A Challenging Integral with the Inverse Tangent Function and an Excellent Generalization According to the Even Positive Powers of the Logarithm

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ISBN: 9783030024628 electronic book) 3030024628 electronic book) 9783030024611 303002461X 9783030024635 print) 3030024636

Materia: Integrals Integrals.

Enlace a formato físico adicional: Print version Valean, Cornel Ioan. (Almost) impossible integrals, sums, and series. Cham, Switzerland : Springer, [2019] 303002461X 9783030024611 (OCoLC)1052862826

Punto acceso adicional serie-Título: Problem books in mathematics

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