

INFINITE SERIES

ISIDORE ISAAC
HIRSCHMAN

Infinite Series Isidore Isaac Hirschman

Daniel J. Graham



Infinite Series Isidore Isaac Hirschman:

Infinite Series Isidore Isaac Hirschman, 2014-10-15 This text for advanced undergraduate and graduate students presents a rigorous approach that also emphasizes applications Encompassing more than the usual amount of material on the problems of computation with series the treatment offers many applications including those related to the theory of special functions Numerous problems appear throughout the book The first chapter introduces the elementary theory of infinite series followed by a relatively complete exposition of the basic properties of Taylor series and Fourier series Additional subjects include series of functions and the applications of uniform convergence double series changes in the order of summation and summability power series and real analytic functions and additional topics in Fourier series The text concludes with an appendix containing material on set and sequence operations and continuous functions Dover 2014 republication of the edition originally published by Holt Rinehart Winston New York 1962 See every Dover book in print at www.doverpublications.com

Real Infinite Series Daniel D. Bonar, Michael J. Khoury Jr., 2018-12-12 This is a widely accessible introductory treatment of infinite series of real numbers bringing the reader from basic definitions and tests to advanced results An up to date presentation is given making infinite series accessible interesting and useful to a wide audience including students teachers and researchers Included are elementary and advanced tests for convergence or divergence the harmonic series the alternating harmonic series and closely related results One chapter offers 107 concise crisp surprising results about infinite series Another gives problems on infinite series and solutions which have appeared on the annual William Lowell Putnam Mathematical Competition The lighter side of infinite series is treated in the concluding chapter where three puzzles eighteen visuals and several fallacious proofs are made available Three appendices provide a listing of true or false statements answers to why the harmonic series is so named and an extensive list of published works on infinite series

General Catalogue of Printed Books British Museum. Department of Printed Books, 1969 **The Thermodynamics of Mathematical Representation** Daniel J. Graham, 2025-06-30 Thermodynamics is the physical science surrounding work heat and relationships across fundamental quantities and situates itself near the center of multiple disciplines through its generality and timelessness Its laws required no rewriting after the twentieth century revolutions of quantum mechanics relativity and solid state physics just to name three subjects The nine chapters of this book make appeal to thermodynamic notions and laws to get under the hood of mathematics the language of the physical sciences without just echoing things best said and written in math books It takes a system to learn about another system we all need thermometers voltmeters and other gadgets to get to know objects of interest But just as critical are the numbers and functions we put to the task however relegated they are to computers in the modern day for the heavy lifting To be sure mathematical representations like $x^{1/2}$ $5/2$ e etc and $f(x) = x^2 \sin x$ etc are never in physical contact with the solids liquids and gases that draw our attention but they are as impacted by the same natural laws as the lab apparatus itself This book shows how the

thermodynamic laws impact our number systems The laws affirm that we have direct access to a vanishingly small fraction of the real numbers They further establish that the real numbers present a maximum evolved system impacting all matters of computation graphing differentiation and integration For completeness one of the chapters includes cases where the thermodynamic laws have little if anything constructive to say about representations in mathematics This book presents a novel perspective to students and teachers in the physical sciences biology and mathematics with the goal of enriching classroom and seminar hours The chapters are self contained and written informally and readers with rudimentary knowledge of energy numbers and functions should handle the material well *Weighted Quadratic Norms and Ultraspherical Polynomials*, I R. Askey, Isidore Isaac Hirschman, 1957 *Author - Title Catalog* University of California, Berkeley. Library, 1963 *Author-title Catalogue* Ontario New Universities Library Project, 1967 *National Union Catalog*, 1956 Includes entries for maps and atlases **National Union Catalog, 1982**, 1983 *National Union Catalog* Library of Congress, 1979 Includes entries for maps and atlases *Whitaker's Cumulative Book List*, 1978 *Subject Catalogue; Final Cumulation, 1964-1967* Ontario New Universities Library Project, 1967 *Monographic Series* Library of Congress, 1978 *Library of Congress Catalogs* Library of Congress, *American Book Publishing Record*, 1978 **Bulletin of reprints**, 1978 *Books cataloged by Tehran Book Processing Centre* Tehran Book Processing Centre, 1971 **Guide to Reprints** Albert James Diaz, 2008 *General Catalogue of Printed Books* British Museum. Department of Printed Books, 1963 **Guide to Reprints 2002** Irene Izod, 2001-10

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