

Infinite Series James M Hyslop

An introduction to the analysis of finite series, infinite series, finite products and infinite products and continued fractions with applications to selected subject areas. Infinite series, infinite products and continued fractions occur in many different subject areas of pure and applied mathematics and have a long history associated with their development. The mathematics contained within these pages can be used as a reference book on series and related topics. The material can be used to augment the mathematics found in traditional college level mathematics course and by itself is suitable for a one semester special course for presentation to either upper level undergraduates or beginning level graduate students majoring in science, engineering, chemistry, physics, or mathematics. Archimedes used infinite series to find the area under a parabolic curve. The method of exhaustion is where one constructs a series of triangles between the arc of a parabola and a straight line. A summation of the areas of the triangles produces an infinite series representing the total area between the parabolic curve and the x-axis.

Includes authors, titles, subjects.

Infinite Series Courier Corporation

This concise text focuses on the convergence of real series. Topics include functions and limits, real sequences and series, series of non-negative terms, general series, series of functions, the multiplication of series, more. 1959 edition.

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Vols. for 1896/97- include List of fellows.

As the title indicates, this book is intended for courses aimed at bridging the gap between lower-level mathematics and advanced mathematics. The text provides a careful introduction to techniques for writing proofs and a logical development of topics based on intuitive understanding of concepts. The authors utilize a clear writing style and a wealth of examples to develop an understanding of discrete mathematics and critical thinking skills. While including many traditional topics, the text offers innovative material throughout. Surprising results are used to motivate the reader. The last three chapters address topics such as continued fractions, infinite arithmetic, and the interplay among Fibonacci numbers, Pascal's triangle, and the golden ratio, and may be used for independent reading assignments. The treatment of sequences may be used to introduce epsilon-delta proofs. The selection of topics provides flexibility for the instructor in a course designed to spark the interest of students through exciting material while preparing them for subsequent proof-based courses.

Giorgio Balzarotti e Pier Paolo Lava - già autori di La sequenza dei numeri primi, Gli errori nelle dimostrazioni matematiche e 103 curiosità matematiche - si avventurano in questo volume alla scoperta di un nuovo approccio alla teoria dei numeri. Il concetto di derivata di un numero, concepito molto probabilmente per la prima volta da un matematico spagnolo pressochè sconosciuto, Josè Mingot Shelly, dopo essere stato ignorato per quasi un secolo, sta avendo una grande rinascita proprio in questi ultimi anni nei siti e nelle riviste del settore. L'idea di Mingot Shelly scaturisce da una similitudine con i più ostici concetti dell'analisi delle funzioni che il matematico

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spagnolo reinterpreta e applica ai numeri interi. Sotto forma di un gioco di aritmetica elementare, o meglio sulla base di una proprietà dei numeri interi, è sviluppato un ingegnoso metodo per affrontare i problemi ancora aperti della teoria dei numeri. Così, oggi, ci si accorge che il concetto di derivata di un numero è molto più che una semplice curiosità per i dilettanti della matematica. Balzarotti e Lava raccolgono e sviluppano in modo sintetico e originale molti dei risultati che si trovano nella letteratura matematica sull'argomento, in modo da rendere la brillante idea accessibile a tutti. Famose congetture sono riscritte utilizzando le derivate dei numeri e anche la formula che esprime l'ennesimo numero primo, chimera di tutti gli appassionati di teoria dei numeri, trova in questo contesto un naturale e accattivante enunciato.

Intended for upper-level undergraduate and graduate courses in chemistry, physics, mathematics and engineering, this text is also suitable as a reference for advanced students in the physical sciences. Detailed problems and worked examples are included.

Over 220,000 entries representing some 56,000 Library of Congress subject headings. Covers all disciplines of science and technology, e.g., engineering, agriculture, and domestic arts. Also contains at least 5000 titles published before 1876. Has many applications in libraries, information centers, and other organizations concerned with scientific and technological literature. Subject index contains main listing of entries. Each entry gives cataloging as prepared by the Library of Congress. Author/title

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