

Summable Series and Convergence Factors

Charles N. Moore



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Michiel Hazewinkel



Summable Series And Convergence Factors:

Summable Series and Convergence Factors Charles Napoleon Moore, 1938-12-31 Fairly early in the development of the theory of summability of divergent series the concept of convergence factors was recognized as of fundamental importance in the subject One of the pioneers in this field was C N Moore the author of the book under review Moore classifies convergence factors into two types In type I he places the factors which have only the property that they preserve convergence for a convergent series or produce convergence for a summable series In type II he places the factors which not only maintain or produce convergence but have the additional property that they may be used to obtain the sum or generalized sum of the series This book gives a generalized systematic treatment of the theory of convergence factors of both types for simply infinite series and for multiple series convergent and summable Bulletin of the American Mathematical Society

Summable Series and Convergence Factors Charles N. Moore, 1976 *Summable Series and Convergence Factors* Charles Napoleon Moore, 1992 Summable Series and Convergence Factors Charles Napoleon Moore, 2012-04-01

Summable Series and Convergence Factors, by Charles N. Moore American Mathematical Society Staff, Revue Semestrielle Des Publications Mathématiques, 1908 Transactions of the American Mathematical Society American Mathematical Society, 1920 Monthly journal devoted entirely to research in pure and applied mathematics and in general includes longer papers than those in the Proceedings of the American Mathematical Society **Encyclopaedia of Mathematics** Michiel Hazewinkel, 1993-01-31 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques An Introductory Course in Summability Theory Ants Aasma, Hemen Dutta, P. N. Natarajan, 2017-04-03 An introductory course in summability theory for students researchers physicists and engineers In creating this book the authors intent was to provide graduate students

researchers physicists and engineers with a reasonable introduction to summability theory Over the course of nine chapters the authors cover all of the fundamental concepts and equations informing summability theory and its applications as well as some of its lesser known aspects Following a brief introduction to the history of summability theory general matrix methods are introduced and the Silverman Toeplitz theorem on regular matrices is discussed A variety of special summability methods including the N rlund method the Weighted Mean method the Abel method and the C 1 method are next examined An entire chapter is devoted to a discussion of some elementary Tauberian theorems involving certain summability methods Following this are chapters devoted to matrix transforms of summability and absolute summability domains of reversible and normal methods the notion of a perfect matrix method matrix transforms of summability and absolute summability domains of the Ces ro and Riesz methods convergence and the boundedness of sequences with speed and convergence boundedness and summability with speed Discusses results on matrix transforms of several matrix methods The only English language textbook describing the notions of convergence boundedness and summability with speed as well as their applications in approximation theory Compares the approximation orders of Fourier expansions in Banach spaces by different matrix methods Matrix transforms of summability domains of regular perfect matrix methods are examined Each chapter contains several solved examples and end of chapter exercises including hints for solutions An Introductory Course in Summability Theory is the ideal first text in summability theory for graduate students especially those having a good grasp of real and complex analysis It is also a valuable reference for mathematics researchers and for physicists and engineers who work with Fourier series Fourier transforms or analytic continuation

ANTS AASMA PhD is Associate Professor of Mathematical Economics in the Department of Economics and Finance at Tallinn University of Technology Estonia HEMEN DUTTA PhD is Senior Assistant Professor of Mathematics at Gauhati University India P N NATARAJAN PhD is Formerly Professor and Head of the Department of Mathematics Ramakrishna Mission Vivekananda College Chennai Tamilnadu India

Doctors of Philosophy and Doctors of Science Harvard University,1926 **Official Register** Harvard University,1926 Classical and Modern Methods in Summability Johann Boos,2000

Summability is a mathematical topic with a long tradition and many applications in for example function theory number theory and stochastics It was originally based on classical analytical methods but was strongly influenced by modern functional analytical methods during the last seven decades The present book aims to introduce the reader to the wide field of summability and its applications and provides an overview of the most important classical and modern methods used Part I contains a short general introduction to summability the basic classical theory concerning mainly inclusion theorems and theorems of the Silverman Toeplitz type a presentation of the most important classes of summability methods Tauberian theorems and applications of matrix methods The proofs in Part I are exclusively done by applying classical analytical methods Part II is concerned with modern functional analytical methods in summability and contains the essential functional analytical basis required in later parts of the book

topologization of

sequence spaces as K and KF spaces domains of matrix methods as FK spaces and their topological structure In this part the proofs are of functional analytical nature only Part III of the present book deals with topics in summability and topological sequence spaces which require the combination of classical and modern methods It covers investigations of the consistency of matrix methods and of the bounded domain of matrix methods via Saks space theory and the presentation of some aspects in topological sequence spaces Lecturers graduate students and researchers working in summability and related topics will find this book a useful introduction and reference work

Doctors of Philosophy and Doctors of Science who Have Received Their Degree in Course from Harvard University, 1873-1909 Harvard University, 1910 *Divergent Series* Godfrey H. Hardy, 2024-06-14 Review of the original edition This is an inspiring textbook for students who know the theory of functions of real and complex variables and wish further knowledge of mathematical analysis There are no problems displayed and labelled problems but one who follows all of the arguments and calculations of the text will find use for his ingenuity and pencil The book deals with interesting and important problems and topics in many fields of mathematical analysis to an extent very much greater than that indicated by the titles of the chapters It is of course an indispensable handbook for those interested in divergent series It assembles a considerable part of the theory of divergent series which has previously existed only in periodical literature Hardy has greatly simplified and improved many theories theorems and proofs In addition numerous acknowledgements show that the book incorporates many previously unpublished results and improvements of old results communicated to Hardy by his colleagues and by others interested in the book *Mathematical Reviews* **Canadian Journal of Mathematics** , 1964 Time Series David R. Brillinger, 2001-09-01 This text employs basic techniques of univariate and multivariate statistics for the analysis of time series and signals **Bulletin (new Series) of the American Mathematical Society** , 1907 Studies on Divergent Series and Summability Walter Burton Ford, 1916 **Algebra, Analysis, and Associated Topics** Sandeep Singh, Mehmet Ali Sarigöl, Alka Munjal, 2023-01-16 The chapters in this contributed volume explore new results and existing problems in algebra analysis and related topics This broad coverage will help generate new ideas to solve various challenges that face researchers in pure mathematics Specific topics covered include maximal rotational hypersurfaces k Horadam sequences quantum dynamical semigroups and more Additionally several applications of algebraic number theory and analysis are presented *Algebra Analysis and Associated Topics* will appeal to researchers graduate students and engineers interested in learning more about the impact pure mathematics has on various fields **The Summability of the Developments in Bessel Functions** Charles Napoleon Moore, 1909

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Summable Series And Convergence Factors Introduction

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