Functions Of A Hyper Complex Variable

Sir Norman Lockyer

Functions Of A Hyper Complex Variable:

Introduction to Geometric Function Theory of Hypercomplex Variables Sorin G. Gal,2002 Introduction to Geometric Function Theory of Hypercomplex Variables **Hypercomplex Analysis: New Perspectives and Applications** Swanhild Bernstein,Uwe Kähler,Irene Sabadini,Frank Sommen,2014-10-10 Hypercomplex analysis is the extension of complex analysis to higher dimensions where the concept of a holomorphic function is substituted by the concept of a monogenic function In recent decades this theory has come to the forefront of higher dimensional analysis There are several approaches to this quaternionic analysis which merely uses quaternions Clifford analysis which relies on Clifford algebras and generalizations of complex variables to higher dimensions such as split complex variables This book includes a selection of papers presented at the session on quaternionic and hypercomplex analysis at the ISAAC conference 2013 in Krakow Poland The topics covered represent new perspectives and current trends in hypercomplex analysis and applications to mathematical physics image analysis and processing and mechanics Hypercomplex Analysis Irene Sabadini,Michael Shapiro,Franciscus Sommen,2009-04-21 Contains selected papers from the ISAAC conference 2007 and invited contributions This book covers various topics that represent the main streams of research in hypercomplex analysis as well as the expository articles It is suitable for researchers and postgraduate students in various areas of mathematical analysis

Complex Numbers in n Dimensions S. Olariu,2002-06-20 Two distinct systems of hypercomplex numbers in n dimensions are introduced in this book for which the multiplication is associative and commutative and which are rich enough in properties such that exponential and trigonometric forms exist and the concepts of analytic n complex function contour integration and residue can be defined The first type of hypercomplex numbers called polar hypercomplex numbers is characterized by the presence in an even number of dimensions greater or equal to 4 of two polar axes and by the presence in an odd number of dimensions of one polar axis The other type of hypercomplex numbers exists as a distinct entity only when the number of dimensions n of the space is even and since the position of a point is specified with the aid of n 2 1 planar angles these numbers have been called planar hypercomplex numbers The development of the concept of analytic functions of hypercomplex variables was rendered possible by the existence of an exponential form of the n complex numbers Azimuthal angles which are cyclic variables appear in these forms at the exponent and lead to the concept of n dimensional hypercomplex residue Expressions are given for the elementary functions of n complex variable In particular the exponential function of an n complex number is expanded in terms of functions called in this book n dimensional cosexponential functionsof the polar and respectively planar type which are generalizations to n dimensions of the sine cosine and exponential functions In the case of polar complex numbers a polynomial can be written as a product of linear or quadratic factors although it is interesting that several factorizations are in general possible In the case of planar hypercomplex numbers a polynomial can always be written as a product of linear factors although again several

factorizations are in general possible The book presents a detailed analysis of the hypercomplex numbers in 2 3 and 4 dimensions then presents the properties of hypercomplex numbers in 5 and 6 dimensions and it continues with a detailed analysis of polar and planar hypercomplex numbers in n dimensions The essence of this book is the interplay between the algebraic the geometric and the analytic facets of the relations *Advances in Hypercomplex Analysis* Graziano Gentili,Irene Sabadini,Michael Shapiro,Franciscus Sommen,Daniele C. Struppa,2012-11-14 This volume is intended to collect important research results to the lectures and discussions which took Place in Rome at the INdAM Workshop on Different Notions of Regularity for Functions of Quaternionic Variables in September 2010 This volume will collect recent and new results which are connected to the topic covered during the workshop The work aims at bringing together international leading specialists in the field of Quaternionic and Clifford Analysis as well as young researchers interested in the subject with the idea of presenting and discussing recent results analyzing new trends and techniques in the area and in general of promoting scientific collaboration Particular attention is paid to the presentation of different notions of regularity for functions of hypercomplex variables and to the study of the main features of the theories that they originate **Analytic Functions Over a Certain Hypercomplex Algebra** Samuel W. Stewart,1937 **Functions of Hypercomplex Variables** Pierce Waddell Ketchum,1928 **Wavelets, Multiscale Systems and Hypercomplex Analysis** Daniel Alpay,2006-08-06 This volume contains a selection of papers on the topics of Clifford analysis and wavelets and multiscale analysis the latter being understood in a very wide sense The theory of wavelets is mathematically rich and has many practical applications Most of the articles have been written on invitation and they provide a unique collection of material particularly relating to Clifford analysis and the theory of wavelets A Hypercomplex Function-theory Associated with La-Place's Equation H. H. Snyder,1968 Hosted by The Senator of Ports Shipping and Transport Bremen in co operation with BIMCO et al organized by Port and Transport Consulting Bremen GmbH **On Analytic Functions of an Infinite Harmonic Hypercomplex Variable** Robert Wesley Sloan,1955 *Theory of Functions of a Complex Variable* Heinrich Burkhardt,1913 *Hypercomplex Analysis and Applications* Irene Sabadini,Franciscus Sommen,2010-12-20 The purpose of the volume is to bring forward recent trends of research in hypercomplex analysis The list of contributors includes first rate mathematicians and young researchers working on several different aspects in quaternionic and Clifford analysis Besides original research papers there are papers providing the state of the art of a specific topic sometimes containing interdisciplinary fields The intended audience includes researchers PhD students postgraduate students who are interested in the field and in possible connection between hypercomplex analysis and other disciplines including mathematical analysis mathematical physics algebra *Fifteen Papers on Series and Functions of Complex Variables* ,1964 **Bulletin of the American Mathematical Society** ,1908 **Hyper-complex Variables, Their Functions and Applications in Physics** Pierce Waddell Ketchum,1926 *Michele Sce's Works in Hypercomplex Analysis* Fabrizio Colombo,Irene Sabadini,Daniele C.

Struppa,2020-10-24 This book presents English translations of Michele Sce s most important works originally written in Italian during the period 1955 1973 on hypercomplex analysis and algebras of hypercomplex numbers Despite their importance these works are not very well known in the mathematics community because of the language they were published in Possibly the most remarkable instance is the so called Fueter Sce mapping theorem which is a cornerstone of modern hypercomplex analysis and is not yet understood in its full generality This volume is dedicated to revealing and describing the framework Sce worked in at an exciting time when the various generalizations of complex analysis in one variable were still in their infancy In addition to faithfully translating Sce s papers the authors discuss their significance and explain their connections to contemporary research in hypercomplex analysis They also discuss many concrete examples that can serve as a basis for further research The vast majority of the results presented here will be new to readers allowing them to finally access the original sources with the benefit of comments from fellow mathematicians active in the field of hypercomplex analysis As such the book offers not only an important chapter in the history of hypercomplex analysis but also a roadmap for further exciting research in the field   The American Mathematical Monthly ,1929 Includes section Recent publications
    Nature Sir Norman Lockyer,1906   *Analytic Functions of Hypercomplex Variables* Pierce Waddell Ketchum,1926
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