FIX-POINTS AND FACTORIZATION OF MEROMORPHIC FUNCTIONS

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Fixpoints And Factorization Of Meromorphic Functions

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Fixpoints And Factorization Of Meromorphic Functions:

Fix-points And Factorization Of Meromorphic Functions: Topics In Complex Analysis Chung-chun Yang,Qitai Zhuang,1990-01-01 The fix points and factorization of meromorphic functions have become two research topics that have attracted many complex analysts attention throughout the world notably in U S China and Japan The first two chapters reintroduce Nevanlinna s theory of meromorphic functions and Montel s normal families theory for entire functions Based on these several theorems on fix points were derived The last two chapters introduce the factorization theory and the relationships between the fix points and factorization many recent results in factorization theory were reported and related open questions were raised for further study This book provides a timely introduction to some of the topics that are currently pursued by many complex analysts For instance the fix points of itrates of functions is closely related to the fractal mathematics which has just been realized to be useful in many branches of engineering and physics as well as in computer graphics   **Fix-points and Factorization of Meromorphic Functions** Qitai Zhuang,Ch?i-t?ai Chuang,Chung-Chun Yang,1990 The fix points and factorization of meromorphic functions have become two research topics that have attracted many complex analysts attention throughout the world notably in U S China and Japan The first two chapters reintroduce Nevanlinna s theory of meromorphic functions and Montel s normal families theory for entire functions Based on these several theorems on fix points were derived The last two chapters introduce the factorization theory and the relationships between the fix points and factorization many recent results in factorization theory were reported and related open questions were raised for further study This book provides a timely introduction to some of the topics that are currently pursued by many complex analysts For instance the fix points of itrates of functions is closely related to the fractal mathematics which has just been realized to be useful in many branches of engineering and physics as well as in computer graphics

Factorization of Meromorphic Functions Fred Gross,1973   *Factorization of Meromorphic Functions* Fred Gross,1973

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   Dynamics of Transcendental Functions Xin-Hou Hua,2019-01-22 In this extensive work the authors give a complete self contained exposition on the subject of classic function theory and the most recent developments in transcendental iteration They clearly present the theory of iteration of transcendental functions and their analytic and geometric aspects Attention is concentrated for the first time on the d   **Factorization of Meromophic Functions** United States. Naval Research Office,1972   **Complex Analysis. Kentucky 1976** J. D. Buckholtz,T. J. Suffridge,2006-11-14   Several Complex Variables in China Chung-Chun Yang,Sheng Gong,1993 Today there is increasing interest in complex geometry geometric function theory and integral representation theory of several complex variables The

present collection of survey and research articles comprises a current overview of research in several complex variables in China Among the topics covered are singular integrals function spaces differential operators and factorization of meromorphic functions in several complex variables via analytic or geometric methods Some results are reported in English for the first time **Uniqueness Theory of Meromorphic Functions** Chung-Chun Yang,Hong-Xun Yi,2004-10-04 This book is the first monograph in the field of uniqueness theory of meromorphic functions dealing with conditions under which there is the unique function satisfying given hypotheses Developed by R Nevanlinna a Finnish mathematician early in the 1920 s research in the field has developed rapidly over the past three decades with a great deal of fruitful results This book systematically summarizes the most important results in the field including many of the authors own previously unpublished results In addition useful skills and simple proofs are introduced This book is suitable for higher level and graduate students who have a basic grounding in complex analysis but will also appeal to researchers in mathematics **Report of NRL Progress** Naval Research Laboratory (U.S.), **Value Distribution of Meromorphic Functions** Anatoliĭ Asirovich Gol'dberg,Iosif Vladimirovich Ostrovskiĭ, This book contains a comprehensive exposition of the Nevanlinna theory of meromorphic functions of one complex variable with detailed study of deficiencies value distribution and asymptotic properties of meromorphic functions The main body of the book is a translation of the Russian original published in 1970 which has been one of the most popular sources in this field since then New references and footnotes related to recent achievements in the topics considered in the original edition have been added and a few corrections made A new Appendix with a survey of the results obtained after 1970 and extensive bibliography has been written by Alexandre Ermenko and James K Langley for this English edition The only prerequisite for understanding material of this book is an undergraduate course in the theory of functions of one complex variable BOOK JACKET **Complex Analysis And Potential Theory - Proceedings Of The Conference Satellite To Icm 2006** T Aliyev Azeroglu,Promarz M Tamrazov,2007-08-13 This volume gathers the contributions from outstanding mathematicians such as Samuel Krushkal Reiner K hnau Chung Chun Yang Vladimir Miklyukov and others It will help researchers to solve problems on complex analysis and potential theory and discuss various applications in engineering The contributions also update the reader on recent developments in the field Moreover a special part of the volume is completely devoted to the formulation of some important open problems and interesting conjectures **Complex Analysis and Potential Theory** Tahir Aliyev Azero?lu,Promarz Melikovich Tamrazov,2007 This volume gathers the contributions from outstanding mathematicians such as Samuel Krushkal Reiner K hnau Chung Chun Yang Vladimir Miklyukov and others It will help researchers to solve problems on complex analysis and potential theory and discuss various applications in engineering The contributions also update the reader on recent developments in the field Moreover a special part of the volume is completely devoted to the formulation of some important open problems and interesting conjectures **Complex Delay-Differential Equations** Kai Liu,Ilpo Laine,Lianzhong

Yang,2021-06-08 This book presents developments and new results on complex differential difference equations an area with important and interesting applications which also gathers increasing attention Key problems methods and results related to complex differential difference equations are collected to offer an up to date overview of the field **Annual Report** , *Review* ,1970 **Review, Naval Research Laboratory, Washington, D.C.** United States. Office of Naval Research, **Classical Analysis in the Complex Plane** Robert B. Burckel,2021-10-11 This authoritative text presents the classical theory of functions of a single complex variable in complete mathematical and historical detail Requiring only minimal undergraduate level prerequisites it covers the fundamental areas of the subject with depth precision and rigor Standard and novel proofs are explored in unusual detail and exercises many with helpful hints provide ample opportunities for practice and a deeper understanding of the material In addition to the mathematical theory the author also explores how key ideas in complex analysis have evolved over many centuries allowing readers to acquire an extensive view of the subject s development Historical notes are incorporated throughout and a bibliography containing more than 2 000 entries provides an exhaustive list of both important and overlooked works Classical Analysis in the Complex Plane will be a definitive reference for both graduate students and experienced mathematicians alike as well as an exemplary resource for anyone doing scholarly work in complex analysis The author s expansive knowledge of and passion for the material is evident on every page as is his desire to impart a lasting appreciation for the subject I can honestly say that Robert Burckel s book has profoundly influenced my view of the subject of complex analysis It has given me a sense of the historical flow of ideas and has acquainted me with byways and ancillary results that I never would have encountered in the ordinary course of my work The care exercised in each of his proofs is a model of clarity in mathematical writing Anyone in the field should have this book on their bookshelves as a resource and an inspiration From the Foreword by Steven G Krantz Elementary Fixed Point Theorems P.V. Subrahmanyam,2019-01-10 This book provides a primary resource in basic fixed point theorems due to Banach Brouwer Schauder and Tarski and their applications Key topics covered include Sharkovsky s theorem on periodic points Thron s results on the convergence of certain real iterates Shield s common fixed theorem for a commuting family of analytic functions and Bergweiler s existence theorem on fixed points of the composition of certain meromorphic functions with transcendental entire functions Generalizations of Tarski s theorem by Merrifield and Stein and Abian s proof of the equivalence of Bourbaki Zermelo fixed point theorem and the Axiom of Choice are described in the setting of posets A detailed treatment of Ward s theory of partially ordered topological spaces culminates in Sherrer fixed point theorem It elaborates Manka s proof of the fixed point property of arcwise connected hereditarily unicoherent continua based on the connection he observed between set theory and fixed point theory viaa certain partial order Contraction principle is provided with two proofs one due to Palais and the other due to Barranga Applications of the contraction principle include the proofs of algebraic Weierstrass preparation theorem a Cauchy Kowalevsky theorem for partial differential equations and the central

limit theorem It also provides a proof of the converse of the contraction principle due to Jachymski a proof of fixed point theorem for continuous generalized contractions a proof of Browder Gohde Kirk fixed point theorem a proof of Stalling s generalization of Brouwer s theorem examine Caristi s fixed point theorem and highlights Kakutani s theorems on common fixed points and their applications

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In a global inundated with screens and the cacophony of immediate connection, the profound energy and psychological resonance of verbal art usually disappear in to obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, set within the musical pages of **Fixpoints And Factorization Of Meromorphic Functions**, a captivating work of fictional elegance that impulses with organic emotions, lies an memorable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that mesmerizing opus guides visitors on an emotional odyssey, gently exposing the latent potential and profound impact embedded within the intricate internet of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is key styles, dissect its charming publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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