

**Operator Theory
Advances and Applications
Vol. 67**

Riemann's Boundary Problem with Infinite Index

N.V. Govorov

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Riemann's Boundary Problem with Infinite Index Nikolaj V. Govorov, 2012-12-06 native settlement in 1950 he graduated as an extramural student from Grozny Teachers College and in 1957 from Rostov University He taught mathematics in Novocherkassk Polytechnic Institute and its branch in the town of Shachty That was when his mathematical talent blossomed and he obtained the main results given in the present monograph In 1969 N V Govorov received the degree of Doctor of Mathematics and the academic rank of a Professor From 1970 until his tragic death on 24 April 1981 N V Govorov worked as Head of the Department of Mathematical Analysis of Kuban University actively engaged in preparing new courses and teaching young mathematicians His original mathematical talent vivid reactions kindness bordering on self sacrifice made him highly respected by everybody who knew him In preparing this book for publication I was given substantial assistance by E D Fainberg and A I Heifetz while V M Govorova took a significant part of the technical work with the manuscript Professor C Prather contributed substantial assistance in preparing the English translation of the book I V Ostrovskii PREFACE The classic statement of the Riemann boundary problem consists in finding a function z which is analytic and bounded in two domains D and D^* with a common boundary a smooth closed contour L admitting a continuous extension onto L both from D and D^* and satisfying on L the boundary condition $t G t t g t$

M.G. Krein's Lectures on Entire Operators Valentina Gorbachuk, 2012-12-06 This book is devoted to the theory of entire Hermitian operators an important branch of functional analysis harmoniously combining the methods of operator theory and the theory of analytic functions This theory enables various problems of classical and modern analysis to be looked at from a uniform point of view In addition it serves as a source for setting and solving many new problems in both theories The three chapters of the book are based on the notes written by his students of M G Krein's lectures on the theory of entire operators with $1/1$ deficiency index which he delivered in 1961 at the Pedagogical Institute of Odessa and on his works on the extension theory of Hermitian operators and the theory of analytic functions The theory is further developed in the direction of solving the problems set up by Krein at ICM 66 in the first two appendices The first concerns the case of Hermitian operators with arbitrary defect numbers entire with respect to an ordinary gauge and to a generalized one as well The other focuses on the entire operators representable by differential operators The third appendix is the translation from Russian of the unpublished notes of Krein's lecture in which in particular the place of the theory of entire operators in the whole analysis is elucidated In Krein's mathematical heritage the theory of entire operators occupies a special position

Matrix and Operator Valued Functions I. Gohberg, L.A. Sakhnovich, 2012-12-06 This book is dedicated to the memory of an outstanding mathematician and personality Vladimir Petrovich Potapov who made important contributions to and exerted considerable influence in the areas of operator theory complex analysis and their points of juncture The book commences with insightful biographical material and then presents a collection of papers on different aspects of operator theory and complex analysis covering those recent achievements of the

Odessa Kharkov school in which Potapov was very active The papers deal with interrelated problems and methods The main topics are the multiplicative structure of contractive matrix and operator functions operators in spaces with indefinite scalar products inverse problems for systems of differential equations interpolation and approximation problems for operator and matrix functions The book will appeal to a wide group of mathematicians and engineers and much of the material can be used for advanced courses and seminars

Operator Methods in Ordinary and Partial Differential Equations Sergio Albeverio, Nils Elander, W. Nirrie Everitt, Pavel Kurasov, 2012-12-06 CO i b H BaCHJIbeBH a IU BaJIeBcR8JI Sonja Kovalevsky was born in Moscow in 1850 and died in Stockholm in 1891 Between these years in the then changing and turbulent circumstances for Europe lies the all too brief life of this remarkable woman This life was lived out within the great European centers of power and learning in Russia France Germany Switzerland England and Sweden To this day now 150 years after her birth her influence for and contribution to mathematics science literature women's rights and democratic government are recorded and reviewed not only in Europe but now in countries far removed in time and distance from the lands of her birth and being This volume dedicated to her memory and to her achievements records the Proceedings of the Marcus Wallenberg Symposium held in memory of Sonja Kovalevsky at Stockholm University from 18 to 22 June 2000 The symposium was held at the Department of Mathematics with its excellent library and lecture halls providing favourable working conditions Within these pages are contained a curriculum vitae for Sonja Kovalevsky a list of all her scientific publications together with a copy of the moving and elegant obituary notice written by her friend and protector Gosta Mittag Leffler These papers are followed by a leading article entitled Sonja Kovalevsky Her life and professorship in Stockholm written especially for this volume by Jan Erik Bjork in preparation for his major address to the Symposium

Orthogonal Systems and Convolution Operators Robert Ellis, Israel Gohberg, 2003 The main concern of this book is the distribution of zeros of polynomials that are orthogonal on the unit circle with respect to an indefinite weighted scalar or inner product The first theorem of this type proved by M G Krein was a far reaching generalization of G Szeg's result for the positive definite case A continuous analogue of that theorem was proved by Krein and H Langer These results as well as many generalizations and extensions are thoroughly treated in this book A unifying theme is the general problem of orthogonalization with invertible squares in modules over C algebras Particular modules that are considered in detail include modules of matrices matrix polynomials matrix valued functions linear operators and others One of the central features of this book is the interplay between orthogonal polynomials and their generalizations on the one hand and operator theory especially the theory of Toeplitz matrices and operators and Fredholm and Wiener Hopf operators on the other hand The book is of interest to both engineers and specialists in analysis

Convolution Operators and Factorization of Almost Periodic Matrix Functions Albrecht Böttcher, Yuri I. Karlovich, Ilya M. Spitkovsky, 2012-12-06 Many problems of the engineering sciences physics and mathematics lead to convolution equations and their various modifications Convolution equations on a half line

can be studied by having recourse to the methods and results of the theory of Toeplitz and Wiener Hopf operators. Convolutions by integrable kernels have continuous symbols and the Cauchy singular integral operator is the most prominent example of a convolution operator with a piecewise continuous symbol. The Fredholm theory of Toeplitz and Wiener Hopf operators with continuous and piecewise continuous matrix symbols is well presented in a series of classical and recent monographs. Symbols beyond piecewise continuous symbols have discontinuities of oscillating type. Such symbols emerge very naturally. For example, difference operators are nothing but convolution operators with almost periodic symbols; the operator defined by A. Nagoya Mathematical Journal, 2009 Issue for Mar 1970 dedicated to Professor Katuzi Ono on his 60th birthday with portrait sketch of his life and list of mathematical papers.

Operator Theory and Harmonic Analysis Alexey N. Karapetyants, Vladislav V. Kravchenko, Elijah Liflyand, Helmuth R. Malonek, 2021-09-27. This volume is part of the collaboration agreement between Springer and the ISAAC society. This is the first in the two volume series originating from the 2020 activities within the international scientific conference Modern Methods Problems and Applications of Operator Theory and Harmonic Analysis OTHA Southern Federal University in Rostov on Don, Russia. This volume is focused on general harmonic analysis and its numerous applications. The two volumes cover new trends and advances in several very important fields of mathematics developed intensively over the last decade. The relevance of this topic is related to the study of complex multiparameter objects required when considering operators and objects with variable parameters. Subject Guide to Children's Books in Print 1997 Bowker Editorial Staff, R. R. Bowker Publishing, 1996-09.

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Riemann's Boundary Problem with Infinite Index Nikolaj V. Govorov, 2012-10-10. Native settlement in 1950; he graduated as an extramural student from Grozny Teachers College and in 1957 from Rostov University. He taught mathematics in Novocherkassk Polytechnic Institute and its branch in the town of Shachty. That was when his mathematical talent blossomed and he obtained the main results given in the present monograph. In 1969 N. V. Govorov received the degree of Doctor of Mathematics and the academic rank of a Professor. From 1970 until his tragic death on 24 April 1981 N. V. Govorov worked as Head of the Department of Mathematical Analysis of Kuban University, actively engaged in preparing new courses and teaching young mathematicians. His original mathematical talent, vivid reactions, kindness bordering on self-sacrifice made him highly respected by everybody who knew him. In preparing this book for publication I was given substantial assistance by E. D. Fainberg and A. I. Heifiz, while V. M. Govorova took a significant part of the technical work with the manuscript. Professor C. Prather contributed substantial assistance in preparing the English translation of the book. I. V. Ostrovskii.

PREFACE The classic statement of the Riemann boundary problem consists in finding a function z which is analytic and bounded in two domains D and D^* with a common boundary, a smooth closed contour L admitting a continuous extension onto L both from D and D^* and satisfying on L the boundary condition $t \bar{g} + \bar{t} g = 0$.

Contents of Contemporary Mathematical Journals, 1974. **Verzeichnis lieferbarer Bücher**, 1999. **Mathematical Reviews**, 2003.

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