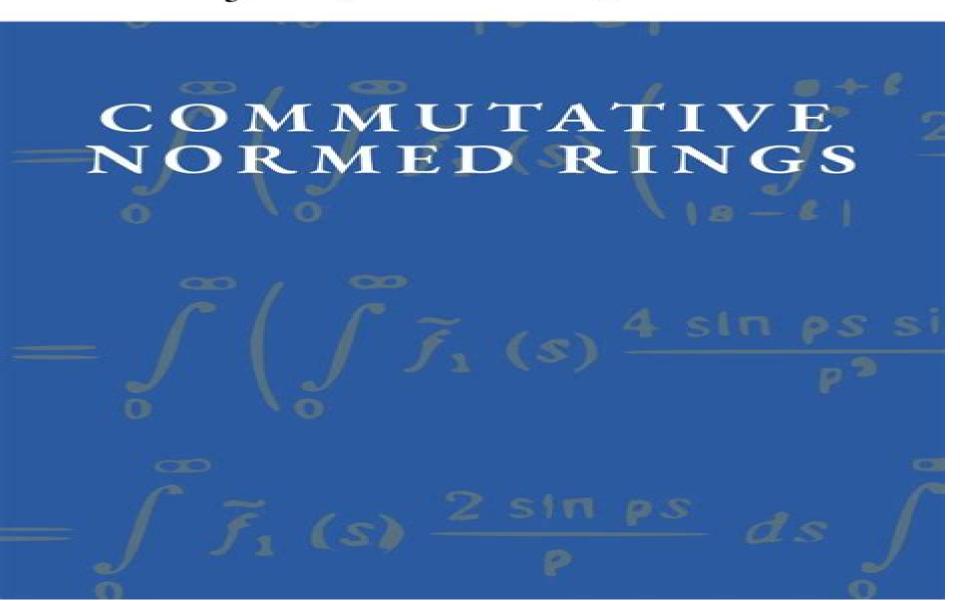
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Commutative Normed Rings Ams Chelsea Publishing

Albrecht Böttcher, Yuri I. Karlovich, Ilya M. Spitkovsky

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Commutative Normed Rings I. Gelfand, D. Raikov, G. Shilov, 2001-10-31 From the Preface 1960 This book is devoted to an account of one of the branches of functional analysis the theory of commutative normed rings and the principal applications of that theory It is based on the authors paper written in 1940 hard on the heels of the initial period of the development of this theory The book consists of three parts Part one concerned with the theory of commutative normed rings and divided into two chapters the first containing foundations of the theory and the second dealing with more special problems Part two deals with applications to harmonic analysis and is divided into three chapters. The first chapter discusses the ring of absolutely integrable functions on a line with convolution as multiplication and finds the maximal ideals of this ring and some of its analogues In the next chapter these results are carried over to arbitrary commutative locally compact groups and they are made the foundation of the construction of harmonic analysis and the theory of characters A new feature here is the construction of an invariant measure on the group of characters and a proof of the inversion formula for Fourier transforms that is not based on theorems on the representation of positive definite functions or positive functionals The last chapter of the second part the most specialized of all the chapters is devoted to the investigation of the ring of functions of bounded variation on a line with multiplication defined as convolution including the complete description of the maximal ideals of this ring The third part of the book is devoted to the discussion of two important classes of rings of functions regular rings and rings with uniform convergence The first of the chapters essentially studies the structure of ideals in regular rings The chapter ends with an example of a ring of functions having closed ideals that cannot be represented as the intersections of maximal ideals The second chapter discusses the ring C S of all bounded continuous complex functions on completely regular spaces S and various of its subrings Since noncommutative normed rings with an involution are important for group theoretical applications the paper by I M Gelfand and N A Naimark Normed Rings with an Involution and their Representations is reproduced at the end of the book slightly abridged in the form of an appendix This monograph also contains an account of the foundations of the theory of commutative normed rings without however touching upon the majority of its analytic applications. The reader should have knowledge of the elements of the theory of normed spaces and of set theoretical topology For an understanding of the fourth chapter the reader should also know what a topological group is It stands to reason that the basic concepts of the theory of measure and of the Lebesgue integral are also assumed to be known Commutative Normed Rings Izrail' Moiseevich Gel'fand, 1964 **Commutative Normed Rings** I. M. Gel'fand, D. A. Rajkov, George E. Shilov, 1964 Functional Analysis and Operator Algebras Kenneth R. Davidson, 2025-05-11 This book offers a comprehensive introduction to various aspects of functional analysis and operator algebras In Part I readers will find the foundational material suitable for a one semester course on functional analysis and linear operators Additionally Part I includes enrichment topics that provide flexibility for instructors Part II covers the fundamentals of

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Pseudo-Differential Operators and Generalized Functions Stevan Pilipović, Joachim Toft, 2015-04-27 This book gathers peer reviewed contributions representing modern trends in the theory of generalized functions and pseudo differential operators It is dedicated to Professor Michael Oberguggenberger Innsbruck University Austria in honour of his 60th birthday The topics covered were suggested by the ISAAC Group in Generalized Functions GF and the ISAAC Group in Pseudo Differential Operators IGPDO which met at the 9th ISAAC congress in Krakow Poland in August 2013 Topics include Columbeau algebras ultra distributions partial differential equations micro local analysis harmonic analysis global analysis geometry quantization mathematical physics and time frequency analysis Featuring both essays and research articles the book will be of great interest to graduate students and researchers working in analysis PDE and mathematical physics while also offering a valuable complement to the volumes on this topic previously published in the OT series 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 **Operator Theory and Its Applications** Alexander G. Ramm, P. N. Shivakumar, Abraham Vilgelmovich Strauss, 2000 Together with the papers on the abstract operator theory are many papers on the theory of differential operators boundary value problems inverse scattering and other inverse problems and on applications to biology chemistry wave propagation and many other areas BOOK JACKET *Twelve* Landmarks of Twentieth-Century Analysis D. Choimet, H. Queffélec, 2015-07-15 The striking theorems showcased in this book are among the most profound results of twentieth century analysis. The authors original approach combines rigorous mathematical proofs with commentary on the underlying ideas to provide a rich insight into these landmarks in mathematics

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