Commutative Normed Rings (Hardback)

By Israel M. Gelfand, D. Raikov, G. Shilov

American Mathematical Society, United States, 1999. Hardback. Condition: New. Language: English,Russian . Brand New Book. 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...

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