



## Generalized Functions, Volume 6: Representation Theory and Automorphic Functions (Hardback)

By I. M. Gelfand, M. I. Graev, I. I. Pyatetskii-shapiro

American Mathematical Society, United States, 2016. Hardback. Condition: New. Reprint. Language: English . Brand New Book. The first systematic theory of generalized functions (also known as distributions) was created in the early 1950s, although some aspects were developed much earlier, most notably in the definition of the Green s function in mathematics and in the work of Paul Dirac on quantum electrodynamics in physics. The six-volume collection, Generalized Functions, written by I. M. Gelfand and co-authors and published in Russian between 1958 and 1966, gives an introduction to generalized functions and presents various applications to analysis, PDE, stochastic processes, and representation theory. The unifying theme of Volume 6 is the study of representations of the general linear group of order two over various fields and rings of number-theoretic nature, most importantly over local fields ( $p$ -adic fields and fields of power series over finite fields) and over the ring of adeles. Representation theory of the latter group naturally leads to the study of automorphic functions and related number-theoretic problems. The book contains a wealth of information about discrete subgroups and automorphic representations, and can be used both as a very good introduction to the subject and as a valuable reference.



**READ ONLINE**  
[ 1.37 MB ]

### Reviews

*Extensive guideline! Its this sort of excellent read. it had been writtern quite properly and helpful. You can expect to like just how the writer create this book.*

-- **Mr. Gustave Gerhold**

*This book will never be straightforward to start on reading through but quite enjoyable to learn. Better then never, though i am quite late in start reading this one. Your lifestyle span will probably be convert once you complete reading this publication.*

-- **Dr. Kadin Hane DVM**