


**HINDUSTAN  
BOOK AGENCY**
**BASIC ERGODIC THEORY**

THIRD EDITION

**M. G. Nadkarni**, *University of Mumbai, India*

This is an introductory text on ergodic theory. The presentation has a slow pace, and the book can be read by anyone with a background in basic measure theory and metric topology.

The third edition has, among other improvements, a new chapter on additional topics that include Liouville's theorem of classical mechanics, the basics of Shannon Entropy and the Kolmogorov-Sinai theorem, and van der Waerden's theorem on arithmetical progressions.

**Hindustan Book Agency**; 2013; 196 pages; Hardcover; ISBN: 978-93-80250-43-4; List US\$48; AMS members US\$38.40; Order code HIN/58

**PROBABILITY THEORY**

A FOUNDATIONAL COURSE

**R. P. Pakshirajan**, *University of Mysore, India*

This book shares the dictum of J. L. Doob in treating probability theory as a branch of measure theory and establishes this relationship early. Probability measures in product spaces are introduced right at the start as a way of laying the groundwork to later claim the existence of stochastic processes with prescribed finite-dimensional distributions.

**Hindustan Book Agency**; 2013; 564 pages; Hardcover; ISBN: 978-93-80250-44-1; List US\$68; AMS members US\$54.40; Order code HIN/60

**ATIYAH-SINGER INDEX THEOREM**

AN INTRODUCTION

**Amiya Mukherjee**, *Indian Statistical Institute, Calcutta, India*

This monograph is a thorough introduction to the Atiyah-Singer index theorem for elliptic operators on compact manifolds without boundary. The main theme is only the classical index theorem and some of its applications, but not the subsequent developments and simplifications of the theory.

**Hindustan Book Agency**; 2013; 276 pages; Hardcover; ISBN: 978-93-80250-54-0; List US\$60; AMS members US\$48; Order code HIN/64

**SELECTED PAPERS OF V. S.  
VARADARAJAN**

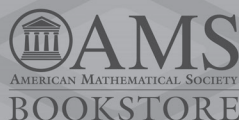
VOLUMES 2 AND 3

**Donald G. Babbitt** and **Ramesh Gangolli**, **K. R. Parthasarathy**, *Indian Statistical Institute, New Delhi, India*,  
**Enrico G. Beltrametti** and **Gianni Cassinelli**, *University of Genova, Italy*, **Rita Fiorese**, *Università di Bologna, Italy*,  
and **Anatoly N. Kochubei**, *National Academy of Sciences of Ukraine, Kiev, Ukraine*, Editors

The current volumes contain the papers on fundamental questions of individual and families of meromorphic differential equations that are treated by a new group theoretic and functional approach; papers on representation theory of Lie groups; papers on foundations of physics, supersymmetry, and P-adic aspects of quantum physical theories; papers on analysis, especially oscillatory integrals, on semi-simple lie groups, their conjugacy classes, and their flag manifolds; and finally, several review articles, both personal and mathematical, on a number of the above topics.

**Hindustan Book Agency**; 2013; 1366 pages; Hardcover; ISBN: 978-93-80250-57-1; List US\$165; AMS members US\$132; Order code HIN/65

Publications of Hindustan Book Agency are distributed within the Americas by the American Mathematical Society. Maximum discount of 20% for all commercial channels.



**Order Online:**  
[www.ams.org/bookstore](http://www.ams.org/bookstore)

**Order by Phone:**  
(800) 321-4267 (U.S. & Canada),  
(401) 455-4000 (Worldwide)