

---

VOLUME IV - PART 2

(to be published in May 1964)

<i>Two probability theorems and their application to some first passage problems . . . . .</i>	C. C. HEYDE
<i>Fractional iteration of entire and rational functions . . . . .</i>	G. SZEKERES
<i>Note on Schröder's functional equation . . . . .</i>	MAREK KUCZMA
<i>On a theorem of Halmos concerning unbiased estimation of moments . . . . .</i>	H. S. KONIJN
<i>Twisted group algebras and their representations</i>	S. B. CONLON
<i>On Runge-Kutta processes of high order . . . . .</i>	J. C. BUTCHER
<i>Fractional iteration near a fixpoint of multiplier</i>	J. N. BAKER
<i>A divisor problem . . . . .</i>	S. C. TANG
<i>On the characteristic functional for a replacement model . . . . .</i>	A. W. DAVIS

---

**New publications**

**A. S. Kompaneys** THEORETICAL PHYSICS

Perhaps the most outstanding account available of the physics of elementary processes. The material has been selected in such a way as to show the reader how the transition is made from microscopic electrodynamics to the theory of quasi stationary fields and the laws of the propagation of light in media.

Translated from the Russian.

Editor G. Yankovsky. 1964 - 592 pp. - Dfl. 33,— - Dfl. 36,—.



**V. Kondratyev** THE STRUCTURE OF ATOMS AND MOLECULES

A comprehensive and extremely lucid account of modern knowledge of atomic and molecular structure. Each chapter is a definitive treatment of its subject.

An excellent book for physicists, and scientists who wish to obtain an over all knowledge of atomic and molecular physics.

Translated from the Russian by G. Yankovsky.

1964 - 532 pp. - Dfl. 30,— - cloth Dfl. 34,20.

**P. NOORDHOFF Ltd. - GRONINGEN - THE NETHERLANDS**

**SOME OF OUR SCIENTIFIC PUBLICATIONS**

**J. C. H. Gerretsen**

**LECTURES ON TENSOR CALCULUS AND  
DIFFERENTIAL GEOMETRY**



A book of practical importance not only for students in pure mathematics but also for those who apply mathematics as an instrument for research.  
1962 - xii + 204 pp. - cloth Dfl. 27,50

**Václav Hlavaty**

**DIFFERENTIAL LINE GEOMETRY**

This book is essentially a treatise about the differential geometry of the quadric  $K$  and its submanifolds, and its application to the study of properties of the corresponding line-manifolds.

Translated by Prof. Harry Levy, in co-operation with Lucretia Switser Levy - x + 495 pp. - cloth Dfl. 29,50

**Václav Hlavaty**

**GEOMETRY OF EINSTEIN'S UNIFIED FIELD THEORY**

'From a mathematical point of view the book leaves little to be desired. Certain problems are enunciated and solutions are given with the clarity, and detail that is characteristic of the many papers that the author has written in this field.'

M. Wyman (Edmonton, Alta) in 'Mathem. Reviews'

xxii + 341 pp. - cloth Dfl. 42,50

**L. V. Kantorovich and V. I. Krylov**

**APPROXIMATE METHODS OF HIGHER ANALYSIS**

A systematic development of highly effective methods for approximate solution of the boundary value problems of classical mathematical physics. Presentation and point of view of the material are quite unique.

Translated by Curtis D. Benster - xvi + 681 pp. - cloth Dfl. 69,—

**M. A. Krasnosel'skii and Ya. B. Rutickii**

**CONVEX FUNCTIONS AND ORLICZ SPACES**

The book is intended for mathematicians (advanced students, candidates for the doctoral degree and scientific workers), who deal with functional analysis and also with various problems in the theory of functions.

Translated by Leo F. Boron - 261 pp. - cloth Dfl. 22,75

**P. NOORDHOFF Ltd. - GRONINGEN - THE NETHERLANDS**

**P.O. Box 39**

*Ask for our complete 'List of Scientific Publications'*