# **VOLUME IV - PART 1**

(to be published in February, 1964)

Symmetrisable operators. Parts II and III	J. P. O. SILBERSTEIN
The inversion of a transform related to the Laplace transform and to heat conduction	D. V. WIDDER
The limit theorems for aperiodic discrete renewal	
processes	P. D. FINCH
On projective-symmetric spaces	BANDANA GUPTA
On finite groups whose 2-Sylow subgroups have	
cyclic subgroups of index 2	W. J. Wong
The double-six of lines over $PG(3, 4)$	J. W. P. HIRSCHFELD
On perfect and extreme forms	P. R. Scott

# New important publications



### Z. P. Mamuzić

#### INTRODUCTION TO GENERAL TOPOLOGY

In this book the reader will find before all procedures for topologizing a set including the several classes of spaces which lie at the foundations of modern analysis. It is intended for the mathematician who wishes to increase his knowledge of the basic elements and methods of general topology and who works with other branches of mathematics and needs a certain supply of ideas and methods of general topology, including the classification of topological spaces with their most elementary properties. Methodologically the material is discussed proceeding from the general to the particular. Translated by Leo F. Boron - 1963 - 160 pp. - cloth Dfl. 17.50

#### Ya. I. Rivkind

#### PROBLEMS IN MATHEMATICAL ANALYSIS

This collection contains 300 problems in mathematical analysis dealing with the proofs of theorems and the exhibition of mathematical expressions with specified properties. Many of them are simple enough for practical applications; others will be useful as themes for course work or in mathematics seminars.

1963 - 104 pp. - Dfl. 10.50

### P. NOORDHOFF - GRONINGEN - THE NETHERLANDS

# Russian Science in English Translation

### I. I. Gol'denblat

## SOME PROBLEMS OF THE MECHANICS OF DEFORMABLE MEDIA

This book brings to the reader's attention certain important problems of the mechanics of deformable media which have arisen in recent years, mainly as a result of technical requirements. It deals with small as well as arbitrary finite deformations of isotropic and anisotropic, elastic and visco-elastic media with different physical properties.

Translated by Z. Mróz - 1963 - xii + 204 pp. - Cloth Dfl. 25.-

#### A. N. Khovanskii

## THE APPLICATION OF CONTINUED FRACTIONS AND THEIR GENERALIZATIONS TO PROBLEMS IN APPROXI-MATION THEORY

This book will be of special interest to students and research workers in the field of Numerical Analysis; besides it will be of considerable general interest. Translated by P. Wynn - 1963 - 244 pp. - cloth Dfl. 28.—

# I. Kožešnik

#### DYNAMICS OF MACHINES

A book for mechanical engineers designing machines, for research scientists and students specializing in Mechanical Engineering.

Translated by Mrs. Helen Watney-Kaczérová - 1962 - 396 pp. - 11 tables -190 illustrations - cloth Dfl. 34 .-

### M. A. Layrent'ev

## VARIATIONAL METHODS FOR BOUNDARY VALUE PROB-LEMS FOR SYSTEMS OF ELLIPTIC EQUATIONS

In this monograph, the author gives an approach to these problems which is different in principle from that adopted hitherto. It is based on a number of geometric properties of conformal and quasi-conformal mappings and uses a general basic scheme for the solutions of variational problems, first suggested by Hilbert and developed by Tonnelli. Translated by J. R. M. Radok - 1963 - 152 pp. - Cloth Dfl. 16,25

#### N.I. Muskhelishvili

## SOME BASIC PROBLEMS OF THE MATHEMATICAL THEORY OF FLASTICITY



"Muskhelishvili's writings cannot fail to make the most vivid impression on every reader by their clarity, their pleasant leisurely style, and their scrupulous attention to detail. There is nothing slipshod in the entire thousand or so pages; every essential point is explained; the exposition is sustained on the highest level even trough the appendixes."

R. Hill in "Nature"

Transl. by J. R. M. Radok - 1963 - 2nd. ed. - xxxii + 704 pp. - cloth Dfl. 57.50

## P. NOORDHOFF Ltd. - GRONINGEN - THE NETHERLANDS P.O. Box 39

Ask for our complete "List of Scientific Publications"