Giovanni Sansone and Johan Gerretsen

Lectures on the theory of functions of a complex variable

Volume I: **Holomorphic functions**

xii + 488 pages - cloth Dfl. 48,75

Hiroshi Yamauchi (Univ. of Hawaii) in the American Mathem. Monthly: "This readable book is the first part of a two-volume English edition of Sansone's Lezioni sulla Teoria delle Funzioni di una Variabile Complessa (1947) with a new text containing revisions and rearrangement of the Italian work. It starts from first principles but does not emphasize logical foundations.....
Among the topics discussed are: power series, elementary functions, Cauchy integral theorem, residue theory, Weierstrass factor theorem, Mittag-Leffler theorem, elliptic functions, integral functions of finite order, Dirichlet series, Riemann zeta function, Laplace integral and asymptotic series."

N. G. de Bruijn (Univ. of Eindhoven) in Nieuw Archief v. Wiskunde: ". . . a thorough, classical book . . ."

H. Hornich (Vienna) in MTW: "The presentation is clear, the book will surely find a great many readers."

E. Hlawka (Vienna) in Monatshefte für Mathematik: "The book can be recommended most heartily."

Order through your local bookseller or directly from publishers:

P. NOORDHOFF N.V. - GRONINGEN (The Netherlands)

COMPOSITIO MATHEMATICA

This journal, with its editorial board of international character, ranks high among the mathematical journals of the world. Its aims are to further the development of mathematics and international co-operation. The services of the following distinguished mathematicians have been secured:

P. Alexandroff, G. Ancochea, E. Artin, R. Baer, S. Bernstein, E. Bompiani, L. E. J. Brouwer, H. Cartan, E. Čech, J. G. van der Corput, S. Eilenberg, H. Freudenthal, R. Garnier, J. C. H. Gerretsen, A. Heyting, Einar Hille, W. V. D. Hodge, H. Hopf, S. T. Hu, G. Julia, E. Kamke, A. Khintchine, S. C. Kleene, H. D. Kloosterman, J. F. Koksma, S. Lefschetz, P. Lévy, S. Maclane, P. Montel, M. Morse, N. E. Nørlund, A. Ostrowski, M. Picone, F. Riesz, W. Saxer, J. A. Schouten, F. Severi, W. Sierpinski, S. Stoïlow, G. Szegö, Ch. J. de la Vallée Poussin.

The journal appears in parts; neither the size of a part nor the interval between the appearance of successive parts is fixed, but each volume contains c. 280 pages. Volume 15 (1961/62) and following, per volume A£ 5. —. —. Volume 1-7 out of print.

For subscriptions write to

P. NOORDHOFF N.V. - PUBLISHERS

Groningen, P. O. B. 39 - The Netherlands

https://doi.org/10.1017/S1446788700026318 Published online by Cambridge University Press

Due early in june 1961:

PROF. DR. M. A. KRASNOSEL'SKIĬ
PROF. DR. YA. B. RUTICKIĬ

Convex functions and Orlicz spaces

Translated from the first Russian edition by Leo F. Boron

CONTENTS

Chapter I:
Special classes of Convex functions

Chapter II:
Orlicz spaces

Chapter III:
Operators in Orlicz spaces

Chapter IV:
Non-linear integral equations

Summary of fundamental results — Bibliographical notes — Literature — Index

The reader will find that this book, written by two recognized authorities in this branch of mathematics, is a rather complete study of convex functions (in a form convenient for the classifications of Orlicz spaces) and of Orlicz spaces. Some results, due to the authors, appear here in complete form for the first time. In the third chapter of the book, conditions for continuity and complete continuity of some operators from one Orlicz space into another are investigated — first for linear integral operators, then for simple non-linear operators, and finally for non-linear integral operators. Orlicz and Luxemburg norms are discussed. Other topics taken up are the Fréchet derivative, the Gâteaux gradient, and the gradient of the Luxemburg and Orlicz norms. Special attention is given the Uryson and Hammerstein operators. The monograph is quite readable and will be useful to students of functional analysis and research workers in this field.

The student who has studied Natanson's *Theory of functions of a real variable* and Zaanen's *Linear analysis* (the sections dealing with Orlicz spaces) will find this volume accessible.

Appr. 288 pages in 6″×9″

Prices when ordered now:

paper cover edition Dfl. **16,—** • cloth bound edition Dfl. **17,50**

Tentative prices after publication: Dfl. 19,75 and Dfl. 21,50

Order through your local bookseller or directly from

P. NOORDHOFF N.V. • P.O.B. 39 • GRONINGEN
The Netherlands

https://doi.org/10.1017/S1446788700026318 Published online by Cambridge University Press