

AMERICAN MATHEMATICAL SOCIETY

TRANSLATIONS

SERIES

2

Ten Papers on

**COMPLEX
ANALYSIS**

Volume

122

Ten Papers on Complex Analysis

This page intentionally left blank

AMERICAN MATHEMATICAL SOCIETY
TRANSLATIONS

Series 2

Volume 122

Ten Papers on Complex Analysis

by

M. A. Lavrent'ev

V. Ya. Gutlyans'kii

V. S. Kud'yavin

S. L. Krushkal'

N. U. Arakelyan

A. A. Nersesyan

M. O. Otelbaev

V. P. Palamodov

L. S. Maergoiz

AMERICAN MATHEMATICAL SOCIETY
PROVIDENCE, RHODE ISLAND

Edited by LEV. J. LEIFMAN

1980 *Mathematics Subject Classifications*. Primary 30-02, 30B99, 30C35, 30C60, 30C70, 30D15, 30E10, 30F40, 30G20, 32C35, 35J55, 41A30, 46E35, 46F20, 52A10, 57S30; Secondary 10D05, 10D15, 13F99, 20H10, 30C80, 30D40, 30F35, 30F99, 32G99, 41A20, 46F15.

Library of Congress Cataloging in Publication Data

Main entry under title:

Ten papers on complex analysis.

(American Mathematical Society translations; ser. 2, v. 122)

Bibliography: p.

Contents: On the theory of conformal mappings/M. A. Lavrent'ev—The product of conformal radii of nonoverlapping domains/V. Ya. Gutlyans'kii—Successive rotation of plane quasi-conformal mappings in $R^n/V. S. Kud'yavin$ —[etc.]

1. Functions of several complex variables—Addresses, essays, lectures. I. Lavrent'ev, Mikhail Alekseevich, 1900— . II. American Mathematical Society. III. Title: 10 papers on complex analysis. IV. Series.

QA331.T33 1984

515.9'4

83-25744

ISBN 0-8218-3081-3

ISSN 0065-9290

COPYING AND REPRINTING. Individual readers of this publication, and nonprofit libraries acting for them are permitted to make fair use of the material, such as to copy an article for use in teaching or research. Permission is granted to quote brief passages from this publication in reviews provided the customary acknowledgement of the source is given.

Republication, systematic copying, or multiple reproduction of any material in this publication (including abstracts) is permitted only under license from the American Mathematical Society. Requests for such permission should be addressed to the Executive Director, American Mathematical Society, P. O. Box 6248, Providence, Rhode Island 02940.

The appearance of the code on the first page of an article in this book indicates the copyright owner's consent for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law, provided that the fee of \$1.00 plus \$.25 per page for each copy be paid directly to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, Massachusetts 01970. This consent does not extend to other kinds of copying such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale.

Copyright © 1984 by the American Mathematical Society

Printed in the United States of America.

All rights reserved except those granted to the United States Government.

Table of Contents

M. A. Lavrent'ev , On the theory of conformal mappings	1
V. Ya. Gutlyanskiĭ , The product of conformal radii of nonoverlapping domains.....	65
V. S. Kud'yavin , Successive rotation of plane quasiconformal mappings in \bar{R}^n	71
S. L. Krushkal' , Some rigidity theorems for discontinuous groups.....	75
N. U. Arakelyan , Uniform and tangential approximations by analytic functions	85
A. A. Nersesyan , On Carleman sets.....	99
M. O. Otelbaev , On the theory of Vekua's generalized analytic functions	105
V. P. Palamodov , The tangent complex of an analytic space.....	119
L. S. Maergoĭz , Plane p -convex sets, and some of their applications. Holomorphic functions of several complex variables	173
V. P. Palamodov , The complex of holomorphic waves	187

Russian Table of Contents*

- М. Лаврентьев, К теории конформных отображений
- В. Я. Гутлянский, Про добуток конформних радіусів неналягаючих областей (укр.)
- В. С. Кудьявин, Последовательное вращение плоских квазиконформных отображений в \overline{R}^n
- С. Л. Крушкаль, Некоторые теоремы жесткости для разрывных групп
- Н. У. Аракелян, Равномерные и касательные приближения аналитическими функциями
- А. А. Нерсесян, О множествах Карлемана
- М. О. Отелбаев, К теории обобщенных аналитических функций века
- В. П. Паламодов, Касательный комплекс аналитического пространства
- Л. С. Маергойз, Плоские ρ -выпуклые множества и некоторые их приложения
- В. П. Паламодов, Комплекс голоморфных волн

*The American Mathematical Society scheme for transliteration of Cyrillic may be found at the end of index issues of *Mathematical Reviews*.

ISBN 978-0-8218-3081-9



9 780821 830819

TRANS2/122