

CONTENTS

I. THE STURM-LIOUVILLE EXPANSION	1
II. THE SINGULAR CASE: SERIES EXPANSIONS	23
III. THE GENERAL SINGULAR CASE	50
IV. EXAMPLES	71
V. THE NATURE OF THE SPECTRUM	107
VI. AN ALTERNATIVE METHOD: TRANSFORM THEORY	129
VII. THE DISTRIBUTION OF THE EIGENVALUES	143
VIII. GENERAL THEOREMS ON EIGENFUNCTIONS	165
IX. CONVERGENCE OF THE EXPANSION UNDER FOURIER CONDITIONS	175
X. SUMMABILITY	189