

CONTENTS

Preface	9
Notations	11
Introduction	13
Chapter I. Order of Strong Approximation	15
§ 1 Order of strong approximation of functions in Lipschitz classes	15
§ 2 Order of strong approximation of functions in $W^r H^\omega$	35
§ 3 Strong approximation by (C, α) -means of negative order	66
§ 4 Generalized strong de la Vallée Poussin means	84
Chapter II. Structural Properties of Functions	96
§ 5 Structural properties of functions arising from the order of strong approximation	96
§ 6 Structural properties of the derivative functions	114
§ 7 Structural properties of functions arising from the generalized strong approximation	130
Chapter III. Embeddings of Function Classes	146
§ 8 Connection between the strong and the best approximation	146
§ 9 Function classes and strong approximation	152
§ 10 Function classes and generalized strong approximation	163
§ 11 Some further embedding theorems	178
Chapter IV. Miscellaneous Theorems	189
§ 12 Conditions furnishing functions of the class $W^r H^1$	189
§ 13 Very strong and mixed approximation	196
References	206
Index	209