TABLE OF CONTENTS

Chapter	No.		T i t l e	Page
		Certificate		
		Acknowledgements		
		Prefa		
CHAPTER	CHAPTER I		INTRODUCTION	
		1.1	Fractional calculus	1.
		1.2	Generalizations of the Hankel Transform	20
		1.3	The H-function and its asymptotic expansions	26
		1.4	Fractional Integrations of H-function	32
		1.5	The Mellin Transform	3 4
CHAPTER	II OPERATORS OF FRACTIONAL INTEGRATION AND A GENERALIZED HANKEL TRANSFORM			37
		2.1	Analytic functions - A necessary and sufficient condition	3 7
		2.2	A Theorem of the Generalized Hankel Transform	45
		2.3	Rules for connecting different Classes of self-reciprocal functions	56
		2.4	Representations of the Kernels	70
BIBL	IO	GRA	РНҮ	76

