CONTENTS

Chapte	II.1 Linear ordinary quasi-differential expressions			
		Acknowledgments ABSTRACT Preliminaries Linear operators on Hilbert space Spectrum of closed densely defined linear operator 8		
	·	ABSTRACT		
1	•	Preliminaries	•	
	I.1	Linear operators on Hilbert space	1	
	1.2	Spectrum of closed densely defined linear operator	8	
	1.3	Deficiency indices	9	
П		Linear differential operators		
	II.1	Linear ordinary quasi-differential expressions	13	
	II.2	Adjoint of quasi-differential expressions	15	
	II.3	Lagrange's identity	16	
	П.4	Operators generated by formally second-order quasi-differential		
		expression in the regular case	21	
	II.5	Properties of the maximal operators	22	
	II.6	The maximal and minimal operators in the singular case	29	
	п.7	Some properties of the solution of the quasi-differential equation	32	
	TT Q	The deficiency indices of $T_o(M)$ and $T_o(M^+)$	34	

ij			Limit - point and Limit - circle classification of symmetri	c
			differential expression	
		III.1	Quasi-differential expression	38
		III.2	The concept of deficiency indices and $L^2_{w}(a,b)$ -classification	40
		111.3	Limit-point case	46
		III.4	Limin-circle case	49
		ш.5	Transformation to real coefficients	55
-	·	Ш.6	Some known results	61
	IV	·	Limit-point and Limit-circle of Sims	
		IV.1	Introduction	67
		IV.2	Limit-point and Limit-circle cases of Sims	68
		IV.3	Case I of Sims	72
		IV.4	Case II of Sims	76
	•	IV.5	Case III of Sims	77
÷	V		On the $L^2_w(a,b)$ -solutions of general second-order non-syldifferential equations	nmetric
		V.1	The general second-order non-symmetric differential exp	ression 79
		V.2	$a = a = (1.0, 2.0, \dots, dof(T_1(M^+) - \overline{2I}) = 2$	82
		V.3	$c + am (10.10 - daf/T (M^{\dagger}) - \overline{\lambda}I) = I$	88
			BLIOGRAPHY	91
		Ara	abic Summary	·