## CONTENTS

2.	FUNCT	IONS OF CLASS C <sup>P</sup>	
	2.0.	Preliminary remarks	83
	2.1.	Weakly p-times differentiable functions	83
	2.2.	Auxiliary formulae	85
	2.3.	Functions defined in $\mathbb{R}^{m}$	88
	2.4.	Symmetry of the higher derivatives	90
	2.5.	Functions of class $C_{m{g}}^{p}$	91
	2.6.	The differentiability classes $C_c^p$ , $C_{qb}^p$ , $C_{\Pi}^p$ , $C_{\Delta}^p$ , $C_{c}^p$	95
		Relations between the various concepts of $\mathcal{C}^p_{\Lambda}$	99
	2.8.	Taylor's Theorem	101
	2.9.	Functions of class $C^{\infty}$	107
	2.10.	Higher order chain rule	111
APPE	ENDIX:	FUNCTIONS OF A REAL VARIABLE	
	A.1.	Derivatives	115
	A.2.	Integrals	118
	A.3.	Relationship between integral and derivative	121
	A.4.	Taylor's Theorem	122
BIBLIOGRAPHY		125	
NOTATIONS			135

INDEX

141