CONTENTS

PART I	FUNDAMENTALS OF ENZYMOLOGY		
	1	The Chemistry of Enzymes	5
	2	The Velocities of Enzymes-Catalyzed Reactions	16
	3	Enzymes-Substrate Intermediates	33
	4	Inhibition, Activation, Inactivation, pH Effects	42
	5	Substrate Specificity	62
	6	Theories of Enzyme Action	69
PART II	Tl	HE FORMS OF ENZYME MECHANISMS	
	7	Single- and Double-Displacement Mechanisms	85
	8	Substituted Enzymes and Ternary Complexes	91
	9	Steady-State Kinetic Analysis of Two-Substrate Formal Mechanisms	104
PART II	ΙΤΙ	HE PARTICULARS OF ENZYME MECHANISMS	
	10	Rate and Equilibrium Constants from Steady-State Velocity and Isotope	
		Equilibration Studies	115
	11	Rate Constants from Pre-Steady-Studies	129
	12	The Direction of Electronic Displacement – Analogue Substrates	139
	13	Thermodynamic and Activation Parameters: Variation of Temperature, Dielectric	
		Constant, Ionic Strength	144
	14	Identification of Specific Groups: Use of pH Variation and "Group Specific"	
		Reagents	154
PART IV	M	ETABOLIC CONTROL AT THE ENZYME LEVEL	
	15	Regulatory Enzymes and Sigmoid Kinetics	169
	16	Coupled and Cyclic Systems	179
Appendix			189
Index			201