## 547.758 ENZ

## CONTENTS

1	Theories of Enzyme Catalysis	1
2	Enzyme Models – Synthetic Polymers	14
3	Enzyme Models – Crown Ethers	35
4	Enzyme Models - Cyclodextrins (Cycloamyloses)	56
5	Enzyme Models - Small Molecule and Intramolecular Catalysis	67
6	Use of Protein Engineering to Study Enzyme Mechanisms	78
7	Transition State Affinity and the Design of Enzyme Inhibitors	97
8	Acyl Group Transfer – Fundamental Mechanisms	123
9	Acyl Group Transfer – Cysteine Proteinases	140
10	Acyl Group Transfer – the Serine Proteinases	159
11	Acyl Group Transfer – Phosphoryl Transfer	178
12	Acyl Group Transfer – Sulphotransferases and Sulphatases	221
13	Acyl Group Transfer – Aspartic Proteinases	229
14	Acyl Group Transfer – Metalloproteinases	240
15	Glycosyl Group Transfer	259
16	Isomerization Mechanisms through Hydrogen and Carbon Transfer	298
17	Imine Formation in Enzymatic Reactions	317
18	Pyridoxal Phosphate Dependent Enzymes	345
19	Thiamine-dependent Enzymes	390
20	Adenosylcobalamin-dependent Enzymic Reactions	404
21	Folate-dependent Enzymes	429
22	Glutathione-dependent Enzymes – Chemistry	442
23	Glutathione-dependent Enzymes – Glutathione-S-Transfer	468
24	Oxido-reductases – Pyridine Nucleotide-dependent Enzymes	477
25	Oxido-reductases – Flavoenzymes	506
26	Multi-enzyme Complexes – Eukaryotic Fatty Acid Synthases	534