660.62 IMM

CONTENTS

Preface		ix
1.	Immobilized microbial cells in complex biocatalysis	1
2.	Pore dimensions for accumulating biomass	13
3.	The biophysics of cellular adhesion	29
4.	Production of antibiotics and enzymes by immobilized whole cells	59
5.	Dentrification and removal of heavy metals from waste water by immobilized	
	microorganisms	73
6.	Synthesis of coenzyme a by immobilized bacterial cells	87
7.	Phenol degradation by candida tropicalis whole wells entrapped in polymeric ionic networks	101
8.	Facile methods for the immobilization of microbial cells without disruption of their	
	life processes	119
9.	Enzymatic synthesis of pantothenic acid by escherichia coli cells	133
10.	The use of whole cell immobilization for the production of glucose isomerase	139
11.	Temperature dependence of the stability and the activity of immobilized glucose isomerase	147
12.	Evaluation of a novel microporous PVC-silica support for immobilized enzymes – its	
	use in a flow-through reactor system for production of fructose	173
13.	Immobilized microbial cells with polyacrylamide gel and carrageenan and their	
	industrial applications	187
14.	Application of immobilized whole cells in analysis	203
15.	Microbial electrode sensors for cephalosporins and glucose	221
16.	Hollow fiber entrapped microsomes as a liver assist device in drug overdose treatment	237
Ind	ndex	