CONTENTS

F	Page
Introduction	1
Kinetic Models of Biological Waste Treatment Processes	5
Significance of Flow Patterns and Mixing in Biological Waste Treatment	35
The Effect of Microbial Interactions on Performance of Waste Treatment Processes	51
Oxygen Transfer and control	63
Comparative Utility of Research Employing Model synthetic Systems and Natural Field Systems	77
Developments in Anaerobic Treatment Processes	85
Effect of Growth Rate on the Transient Responses of Batch and Continuous Microbial Cultures	107
Biological Waste Treatment Using Rotating Discs	131
Modeling and Optimization of a Tower-Type Activated Sludge System	141
Author Index	175
Subject Index	177