

CONTENTS

<i>List of contributors</i>	page viii
<i>Preface</i>	ix
1 Fundamental concepts in biochemical reaction theory Sol I. Rubinow and Lee A. Segel	1
2 Equilibrium binding of macromolecules with ligands Sol I. Rubinow	8
3 Allosteric and induced-fit theories of protein binding Sol I. Rubinow	20
4 Positive and negative cooperativity Sol I. Rubinow and Lee A. Segel	29
5 Graphical representations for tetramer binding Aline Ghozlan, Sol I. Rubinow and Lee A. Segel	45
6 Enzyme induction Gad Yagil	57
7 Molecular models for receptor to adenylate cyclase coupling Aviva M. Tolkovsky and Alexander Levitzki	74
8 Models for oscillations and excitability in biochemical systems Albert Goldbeter	107
9 Control of neurotransmitter release: use of facilitation to analyze the regulation of intracellular calcium Hanna Parnas	155
10 Acceptable and unacceptable models of liver regeneration in the rat Jonathan B.L. Bard	182
11 Chaos Alan S. Perelson	197
<i>Index</i>	215