

CONTENTS

1	Introduction	1
2	Empirical Treatment of Reaction Rates	8
3	Experimental Methods and Treatment of Data	27
4	Elementary Processes: Kinetic Theory of Gases	56
5	Transition-State Theory	77
6	Comparison of Theory with Experiment Simple Gas Reactions	103
7	Reactions in Solution	
8	Complex Reactions	
9	Homogeneous Catalysis	
10	Chain Reactions	236
11	The Study of Rapid Reactions	
12	Some Reactions Whose Mechanisms Have Been Investigated by Kinetic and Other Methods	
	Author Index	389
	Subject Index	399