Contents

		Preface	ν
		List of Contributors	ix
		Citation	X
Chapter	1.	Some Thoughts on Logic and Intuition in Science and Chemical Engineering Christo Boyadjiev	1
Chapter	2.	Dynamics Engineering	9
Chapter	3.	Fundamentals of Modeling	21
Chapter	4.	Formulation of Dynamic Models	40
Chapter	5.	Process Dynamics in Chemical Engineering	46
Chapter	6.	Differential Flow and Reaction Applications	73
Chapter	7.	Dynamic Simulation and the ISIM Simulation	139
Chapter	8.	Simulation of Chemical Engineering Processes	150
Chapter	9.	Mass Transfer Process	162
Chanter	10	Sensors and Actuators System	169