

CONTENTS

Preface		vii
Chapter 1	Drug Release Kinetics from Extended Release Oral Drug Delivery Systems: Mathematical Modeling Using Various Approaches <i>Bhupinder Singh and Rishi Kapil</i>	1
Chapter 2	Mathematical Modeling of Nanocrystalline and Amorphous Drugs Release and Gastro-Intestinal Absorption from Polymeric Particles <i>Gabriele Grassi and Mario Grassi</i>	49
Chapter 3	Mathematical Modeling of Drug Release from Pharmaceutical Dosage Forms <i>Petrović Jelena, Ibrić Svetlana, Jocković Jelena, Parojčić Jelena and Đurić Zorica</i>	83
Chapter 4	Computer Modeling of Synchronization of Proliferative Epidermis Activity Self-Oscillations in Psoriatic Lesions with an External Periodic Force <i>M.V. Laptev and N.K. Nikulin</i>	113
Chapter 5	Comparing Different Clustering Algorithms for Categorical and Continuous Variables <i>Sueli Aparecida Mingoti and Renata Assis de Matos</i>	141
Chapter 6	Virtual Bioequivalence Trials as a Tool for Regulatory Decisions <i>Carlos Fernández-Teruel, Isabel Gonzalez-Alvarez, Carmen Navarro-Fontestad, Alfredo Garcia-Arieta, Vicente G. Casabó Alós and Marival Bermejo Sanz</i>	165
Chapter 7	New Scalable Varied Density Clustering Algorithm for Large Datasets <i>Ahmed Fahim, Abdel-badeeh Salem and Gunter Saake</i>	179
Chapter 8	A Note on Feature Weight Selection in Fuzzy α -Means Algorithm <i>Kongsheng Zhang and Bainian Li</i>	195

Chapter 9	Mathematical Modeling of Hydride Formation	203
	<i>Ilya A. Chernov and Igor E. Gabis</i>	
Chapter 10	Systems with Hysteresis in Mathematical Biology via a Canonical Example	247
	<i>Alexander Pimenov, Thomas C. Kelly, Andrei Korobeinikov, Michael J.A. O'Callaghan and Alexei V. Pokrovskii</i>	
Index		281