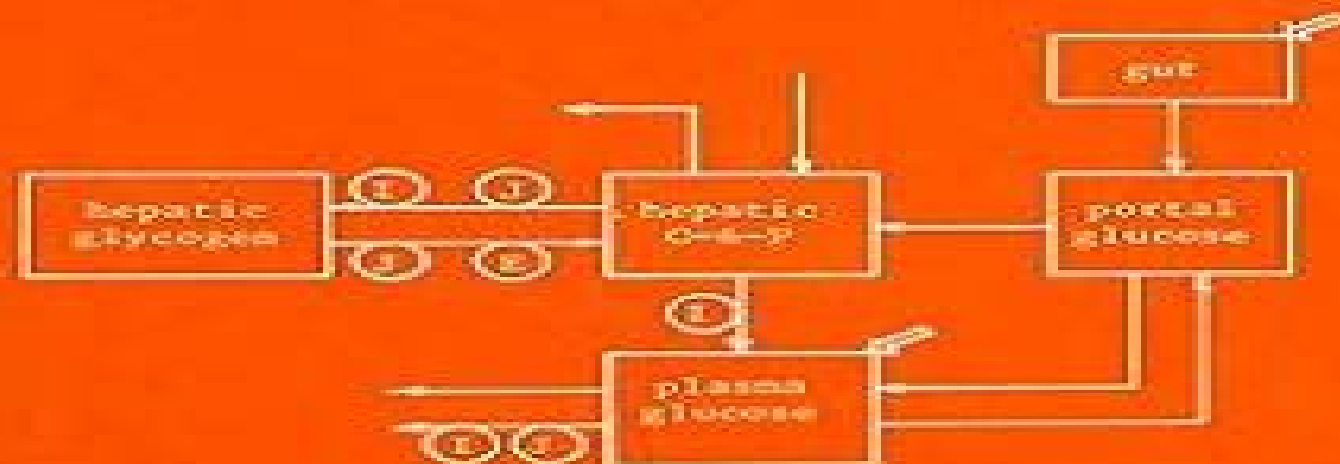


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Dhakshinamoorthy,Guo-Cheng Wu,Santo Banerjee,2024-09-06 The book reviews the application of discrete fractional operators in diverse fields such as biological and chemical reactions as well as chaotic systems demonstrating their applications in physics The dynamical analysis is carried out using equilibrium points of the system for studying their stability properties and the chaotic behaviors are illustrated with the help of bifurcation diagrams and Lyapunov exponents The book is divided into three parts Part I deals with the application of discrete fractional operators in chemical reaction based systems with biological significance Two different chemical reaction models are analysed one being disproportionation of glucose which plays an important role in human physiology and the other is the Lengyel Epstein chemical model Chaotic behavior of the systems is studied and the synchronization of the system is performed Part II covers the analysis of biological systems like tumor immune system and neuronal models by introducing memristor based flux control The memductance functions are considered as quadratic periodic and exponential functions The final part of the book reviews the complex form of the Rabinovich Fabrikant system which describes physical systems with strong nonlinearity exhibiting unusual behavior

The New Frontier of Network Physiology: From Temporal Dynamics to the Synchronization and Principles of Integration in Networks of Physiological Systems Plamen Ch. Ivanov,Andras Eke,Olga Sosnovtseva,2022-02-17 **Endothelial**

Biomedicine William C. Aird,2007-09-03 The endothelium the cell layer that forms the inner lining of blood vessels is a spatially distributed system that extends to all areas of the human body Clinical and basic research demonstrates that the endothelium plays a crucial role in mediating homeostasis and is involved in virtually every disease either as a primary determinant of pathophysiology or as a victim of collateral damage The endothelium has remarkable though largely untapped diagnostic and therapeutic potential This volume bridges the bench to bedside gap in endothelial biomedicine advancing research and development and improving human health The book is the first to systematically integrate knowledge about the endothelium from different organ specific disciplines including neurology pulmonary cardiology gastroenterology rheumatology infectious disease hematology oncology nephrology and dermatology It s interdisciplinary approach which draws on expertise from such diverse fields as evolutionary biology comparative biology molecular and cell biology mathematical modeling and complexity theory translational research and clinical medicine *Research Awards Index* ,1989

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innovative research techniques on current technologies in the management of problems in oral health and medicine

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