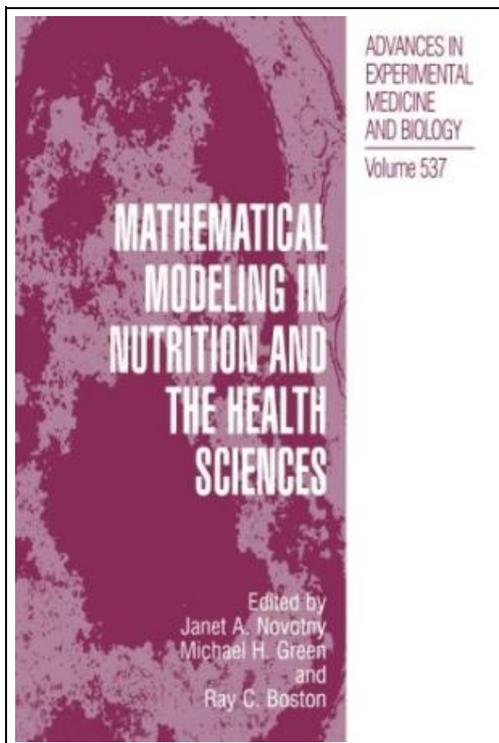


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MATHEMATICAL MODELING IN NUTRITION AND THE HEALTH SCIENCES (PAPERBACK)



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Springer-Verlag New York Inc., United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Over the years, research in the life sciences has benefited greatly from the quantitative tools of mathematics and modeling. Many aspects of complex biological systems can be more deeply understood when mathematical techniques are incorporated into a scientific investigation. Modeling can be fruitfully applied in many types of biological research, from studies on the molecular, cellular, and organ level, to experiments in whole animals and in populations. Using the field of nutrition as an example, one can find many cases of recent advances in knowledge and understanding that were facilitated by the application of mathematical modeling to kinetic data. The availability of biologically important stable isotope-labeled compounds, developments in sensitive mass spectrometry and other analytical techniques, and advances in the powerful modeling software applied to data have each contributed to our ability to carry out ever more sophisticated kinetic studies that are relevant to nutrition and the health sciences at many levels of organization. Furthermore, we anticipate that modeling is on the brink of another major advance: the application of kinetic modeling to clinical practice. With advances in the ability of models to access large databases (e. g. , a population of individual patient records) and the development of user interfaces that are friendly enough to be used by clinicians who are not modelers, we predict that the health applications modeling will be an important new direction for modeling in the 21st century. This book contains manuscripts that are based on presentations at the seventh conference in a series focused on advancing nutrition and health research by fostering exchange among scientists from such disciplines as nutrition, biology, mathematics, statistics, kinetics, and computing. The themes of the six previous conferences included general nutrition modeling (Canolty and Cain, 1985; Hoover-Plow and Chandra, 1988), amino acids and carbohydrates (Aburnrad, 1991), minerals (Siva Subramanian and Wastney, 1995), vitamins, proteins, and modeling theory (Coburn and Townsend, 1996), and physiological compartmental modeling (Clifford and Muller, 1998). The seventh conference in the series was held at The Pennsylvania State University from July 29 through August 1, 2000. The meeting began with an instructive and entertaining keynote address by Professor Britton Chance, Eldridge Reeves Johnson University Professor Emeritus of Biophysics, Physical Chemistry, and Radiologic Physics, University of Pennsylvania. Dr. Softcover reprint of the original 1st ed. 2003.



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