

Book Reviews | Reseñas

MATHEMATICAL MODELLING IN BIOSCIENCE. THEORY AND APPLICATIONS

Hemen Dutta (2024)

Elsevier

ISBN: 9780443154454

The book *Mathematical Modeling in Bioscience: Theory and Applications* is recommended to readers dealing with quantitative techniques for bioscience research. It is concerned with newly developed models in challenging topics of bioscience. Among them you will obtain knowledge on modeling of the Topp-Leone, transmission of SARS-COV-2, HIV/AIDS, vector-borne disease. Models for irrigation scheduling, predator-prey pattern formulation, of the family of Weibull-G distributions are presented. The readers will have a mathematical description of recent models and techniques, and discussions of their applications in bioscience phenomena modeling. The book is of interest for specialists having in their profiles connections with mathematical modeling, statistics, biology, biomedical engineering, computer science, applied sciences among other profiles.

M. J. Arellano

Advance Computation School

THE ESSENTIAL CRITERIA OF GRAPH DATABASES

Ricky Sun (2024)

Elsevier

ISBN: 9780443141621

This book is concerned with presenting a collection of newly developed applications of Graph Theory in Big Data problems appearing in studies in banking, as asset-liability and liquidity risk management. The contents fulfill gaps present in Artificial Intelligence (AI) modeling as those posed by Blackbox, lack of explainability, Silos, slews of siloed systems across the AI ecosystem, Low-performance, most of ML/DL based AI systems are SLOW. There is a need providing of effective AI solutions, when working with Graph Databases. The solving challenges posed by high-performance graph database and graph computing. They are treated in this book, permitting to simplify the tasks to be solved in applications. Graph theoreticians will broaden their research fields.

P. Gupta

Advance Computation School

APPLIED LINEAR ALGEBRA, PROBABILITY AND STATISTICS : A Volume in Honour of C. R. Rao and Arbind K. Lal

[Ravindra B. Bapat](#), [Manjunatha Prasad Karantha](#), [Stephen J. Kirkland](#), [Samir Kumar Neogy](#), [Sukanta Pati](#), [Simo Puntanen](#), Editors, 2023

ISI, publishers

ISSN 2523-3122. ISSN 2523-3114

This book presents series of papers connected with the work of distinguished professors C. R. Rao and Arbind K. Lal.

Prof. Calyampudi Radhakrishna Rao is one of the pillars of statistiac theory and now 100 he exhibited a hundred years of fruitful life.

Prof. Arbind K. Lal unfortunately died too soon. Collaborators, students, colleagues have been inspired by him.

The chapters deal with the matrix theory, included generalized inverses, and graphs. Also they are connected with applied probability and statistics, as well as sketching the history of mathematics. The book should be of wide interest for people interested in the themes.

R. S. Diaz
Academia de Estudios Matemàtivos Avanzados