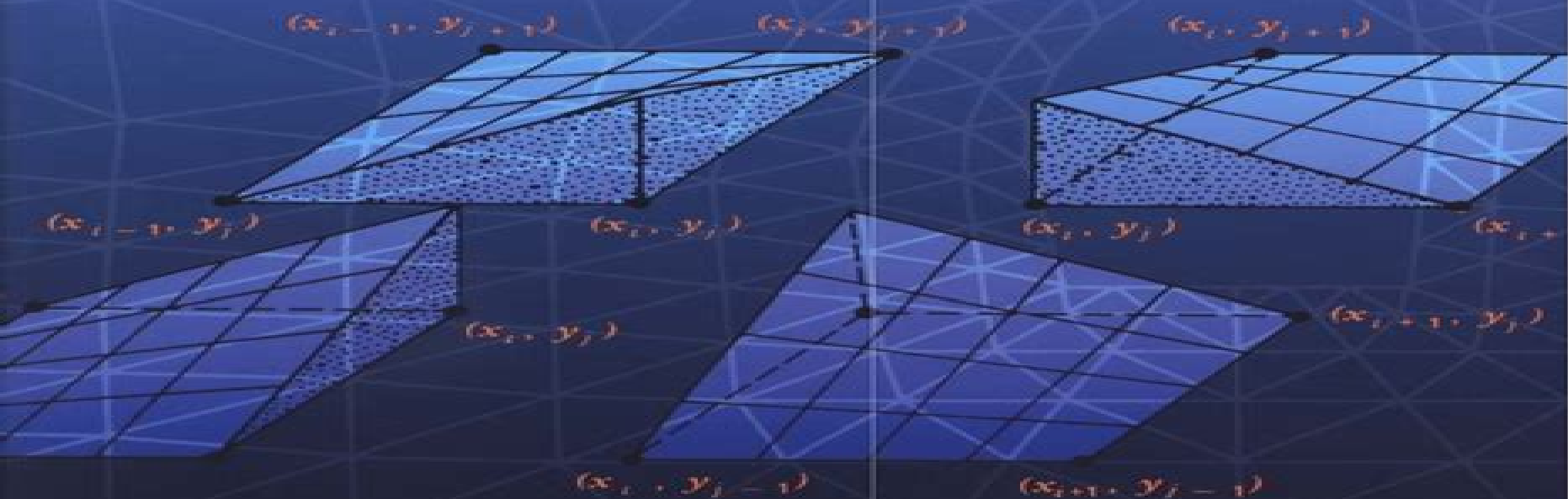


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Splines and Variational Methods



Prenter Splines Variational Methods

**R. Arcangéli, María Cruz López de
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Leonard D. Berkovitz, 2003-03-31 A comprehensive introduction to convexity and optimization in \mathbb{R}^n This book presents the mathematics of finite dimensional constrained optimization problems It provides a basis for the further mathematical study of convexity of more general optimization problems and of numerical algorithms for the solution of finite dimensional optimization problems For readers who do not have the requisite background in real analysis the author provides a chapter covering this material The text features abundant exercises and problems designed to lead the reader to a fundamental understanding of the material Convexity and Optimization in \mathbb{R}^n provides detailed discussion of Requisite topics

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Extremes and Recurrence in Dynamical Systems Valerio Lucarini, Davide Faranda, Ana Cristina Gomes Monteiro Moreira de Freitas, Jorge Miguel Milhazes de Freitas, Mark Holland, Tobias Kuna, Matthew Nicol, Mike Todd, Sandro Vaienti, 2016-04-25 Written by a team of international experts Extremes and Recurrence in Dynamical Systems presents a unique point of view on the mathematical theory of extremes and on its applications in the natural and social sciences Featuring an interdisciplinary approach to new concepts in pure and applied mathematical research the book skillfully combines the areas of statistical mechanics probability theory measure theory dynamical systems statistical inference geophysics and software application Emphasizing the statistical mechanical point of view the book introduces robust theoretical embedding for the application of extreme value theory in dynamical systems Extremes and Recurrence in Dynamical Systems also features A careful examination of how a dynamical system can serve as a generator of stochastic processes Discussions on the applications of statistical inference in the theoretical and heuristic use of extremes Several examples of analysis of extremes in a physical and geophysical context A final summary of the main results presented along with a guide to future research projects An appendix with software in Matlab programming language to help readers to develop further understanding of the presented concepts Extremes and Recurrence in Dynamical Systems is ideal for academics and practitioners in pure and applied mathematics probability theory statistics chaos theoretical and applied dynamical systems statistical mechanics geophysical fluid dynamics geosciences and complexity science VALERIO LUCARINI PhD is Professor of Theoretical Meteorology at the University of Hamburg Germany and Professor of Statistical Mechanics at the University of Reading UK DAVIDE FARANDA PhD is Researcher at the Laboratoire des sciences du climat et de l'environnement IPSL CEA Saclay Université Paris Saclay Gif sur Yvette France ANA CRISTINA GOMES MONTEIRO MOREIRA DE FREITAS PhD is Assistant Professor in the Faculty of Economics at the University of Porto Portugal JORGE MIGUEL MILHAZES DE FREITAS PhD is Assistant Professor in the Department of Mathematics of the Faculty of Sciences at the University of Porto Portugal MARK HOLLAND PhD is Senior Lecturer in Applied Mathematics in the College of Engineering Mathematics and Physical Sciences at the University of Exeter UK TOBIAS KUNA PhD is Associate Professor in the

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graduate numerical classes at Montana State University and Texas Tech University Introduction to Modern Set Theory

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class of linear dynamical systems positive linear systems One of the most often encountered systems in nearly all areas of science and technology positive linear systems is a specific but remarkable and fascinating class Renowned scientists Lorenzo Farina and Sergio Rinaldi introduce readers to the world of positive linear systems in their rigorous but highly accessible book rich in applications examples and figures This professional reference is divided into three main parts The first part contains the definitions and basic properties of positive linear systems The second part following the theoretical exposition reports the main conceptual results considering applicable examples taken from a number of widely used models The third part is devoted to the study of some classes of positive linear systems of particular relevance in applications such as the Leontief model the Leslie model the Markov chains the compartmental systems and the queueing systems Readers familiar with linear algebra and linear systems theory will appreciate the way arguments are treated and presented Extraordinarily comprehensive Positive Linear Systems features Applications from a variety of backgrounds including modeling control engineering computer science demography economics bioengineering chemistry and ecology References and annotated bibliographies throughout the book Two appendices concerning linear algebra and linear systems theory for readers unfamiliar with the mathematics used Farina and Rinaldi make no effort to hide their enthusiasm for the topics presented making Positive Linear Systems Theory and Applications an indispensable resource for researchers and professionals in a broad range of fields

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