



mathematical programming with data perturbations

edited by
Anthony V. Fiacco

Mathematical Programming With Data Perturbations

Anthony V. Fiacco



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Mathematical Programming with Data Perturbations I Anthony V. Fiacco, 1982 Basic results Applications and interfaces *Mathematical programming with data perturbations* Symposium on Mathematical Programming with Data Perturbations, 1982

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Symposium on Mathematical Programming with Data Perturbations Anthony V. Fiacco, 1994

Mathematical Programming with Data Perturbations Anthony V. Fiacco, 1983

Special Issue on Mathematical Programming with Data Perturbations Anthony V. Fiacco, 1986

Mathematical Programming with Data Perturbations II, Second Edition Fiacco, 2017-07-07

Perturbation Theory in Mathematical Programming and Its Applications Evgenij S. Levitin, 1994-09-06 Presents the author's research of local parametric optimization in the finite dimensional case This book provides a clear and complete formulation of the main perturbation theory problems for finite dimensional optimization as well as new mathematical methods to analyze these problems Using a unified approach the author has developed a general perturbation theory for finite dimensional extremum problems Within the framework of this theory methods for studying perturbed problems in zero first and second order

approximations have been developed

Perturbation Analysis of Optimization Problems J. Frederic Bonnans, Alexander Shapiro, 2013-11-22 The main subject of this book is perturbation analysis of continuous optimization problems In the last two decades considerable progress has been made in that area and it seems that it is time now to present a synthetic view of many important results that apply to various classes of problems The model problem that is considered throughout the book is of the form $P \min_x \text{subject to } G(x) \in K$ Here X and Y are Banach spaces K is a closed convex subset of Y and $X \in \mathbb{R}$ and $G: X \rightarrow Y$ are called the objective function and the constraint mapping respectively We also consider a parameterized version $P(u)$ of the above problem where the objective function $x \mapsto u$ and the constraint mapping $G(x, u)$ are parameterized by a vector u varying in a Banach space U Our aim is to study continuity and differentiability properties of the optimal value $v(u)$ and the set $S(u)$ of optimal solutions of P viewed as functions of the parameter vector u

Analytic Perturbation Theory and Its Applications Konstantin E. Avrachenkov, Jerzy A. Filar, Phil G. Howlett, 2013-12-11 Mathematical models are often used to describe complex phenomena such as climate change dynamics stock market fluctuations and the Internet These models typically depend on estimated values of key parameters that determine system behavior Hence it is important to know what happens when these values are changed The study of single parameter deviations provides a natural starting point for this analysis in many special settings in the sciences engineering and economics The difference between the actual and nominal values of the perturbation parameter is small but unknown and it is important to understand the asymptotic behavior of the system as the perturbation tends to zero This is particularly true in applications with an apparent discontinuity in the limiting behavior the so called singularly perturbed problems Analytic Perturbation Theory and Its Applications includes a comprehensive treatment of analytic perturbations of matrices linear operators and polynomial systems particularly the singular perturbation of inverses and generalized inverses It also offers original applications in Markov chains Markov decision processes optimization and applications to Google PageRank and the Hamiltonian cycle problem as well as input retrieval in linear control systems and a problem section in every chapter to aid in course preparation

Introduction to Sensitivity and Stability Analysis in Nonlinear Programming Fiacco, 1983-11-02 Introduction to Sensitivity and Stability Analysis in Nonlinear Programming

Continued Fractions and Orthogonal Functions S. Clement Cooper, 2020-12-17 This reference the proceedings of a research conference held in Loen Norway contains information on the analytic theory of continued fractions and their application to moment problems and orthogonal sequences of functions Uniting the research efforts of many international experts this volume treats strong moment problems orthogonal polynomials and Laurent polynomials analyses sequences of linear fractional transformations presents convergence results including truncation error bounds considers discrete distributions and limit functions arising from indeterminate moment problems discusses Szego polynomials and their applications to frequency analysis describes the quadrature formula arising from q -starlike functions and covers continued fractional representations for functions related to the gamma function This resource is intended for

mathematical and numerical analysts applied mathematicians physicists chemists engineers and upper level undergraduate and graduate students in these disciplines **Boundary Control and Variation** Jean-Paul Zolesio,1994-07-28 Based on the Working Conference on Boundary Control and Boundary Variation held in Sophia Antipolis France this work provides important examinations of shape optimization and boundary control of hyperbolic systems including free boundary problems and stabilization It offers a new approach to large and nonlinear variation of the boundary using global Eulerian coordinates and intrinsic geometry Approximation Theory George Anastassiou,1992-04-24 Contains the proceedings of the March 1991 annual conference of the Southeastern Approximation Theorists in Memphis Tenn The 34 papers discuss topics of interest to graduate and professional numerical analysts applied and industrial mathematicians engineers and other scientists such as splines **Continua** Howard Cook,2020-12-18 This volume contains the proceedings of the special session on Modern Methods in Continuum Theory presented at the 100th Annual Joint Mathematics Meetings held in Cincinnati Ohio It also features the Houston Problem Book which includes a recently updated set of 200 problems accumulated over several years at the University of Houston These proceedings and problems are aimed at pure and applied mathematicians topologists geometers physicists and graduate level students in these disciplines **Zero-Dimensional Commutative Rings** David F. Anderson,David Dobbs,1995-04-10 This work presents advances in zero dimensional commutative rings and commutative algebra It illustrates the research frontier with 52 open problems together with comments on the relevant literature and offers a comprehensive index for easy access to information Wide ranging developments in commutative ring theory are examined

Mathematical Programming With Data Perturbations Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mathematical Programming With Data Perturbations**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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