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Josef Illes



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from a control perspective The authors discuss a variety of applications including iterative methods for linear and nonlinear systems of equations neural networks for linear and quadratic programming problems support vector machines integration and shooting methods for ordinary differential equations matrix preconditioning matrix stability and polynomial zero finding This book opens up a new field of interdisciplinary research that should lead to insights in the areas of both control and numerical analysis and shows that a wide range of applications can be approached from and benefit from a control perspective

Optimization of Chemical Plant Simulation Using Double Collocation Josef Illes,2004-06-04

Inhaltsangabe Problemstellung Für die Lösung einer breiten Klasse der chemischen Betriebssimulationsmodelle einschließlich Differentialgleichungen und Optimierung ist eine Methode konstruiert worden Die doppelte orthogonale Kollokation und die Finite Elemente Methode werden angewendet um das Modell in ein NLP Problem zu konvertieren Das NLP Problem wird dann entweder durch den nichtlinearen Optimierungscode VF13AD der auf der sukzessiven quadratischer Programmierung basiert oder durch den nichtlinearen Optimierungscode GRG2 der auf dem generalisierten Gradientenverfahren basiert gelöst Dieses Verfahren wird simultane Optimierung und Lösungsstrategie genannt Das Zielfunktional kann dabei Integralterme enthalten und die Zustandsvariablen sowie die Entscheidungsvariablen können zeitliche Verzögerung haben Das Modell kann Zustandsvariablen und Entscheidungsvariablen enthaltende Gleichungen algebraische Gleichungen und Ungleichungen enthalten Die Höchstzahl der unabhängigen Vorkommenden in den partiellen Differentialgleichungen ist zwei Die Probleme die drei unabhängige Vorkommende enthalten können mit der Differenzenmethode in zwei unabhängige Vorkommende enthaltende Probleme konvertiert werden Die Höchstzahl der NLP Variablen sowie die der Nebenbedingungen beträgt 1500 Die Methode ist auch für das Lösen der gewöhnlichen und partiellen Differentialgleichungen verwendbar Die Zustandsfunktionen werden durch eine lineare Kombination der Lagrange Interpolationspolynomen approximiert Die Kontrollfunktion kann entweder durch eine lineare Kombination der Lagrange Interpolationspolynomen oder durch eine Funktion die stückweise konstant ist approximiert werden Der Wert der Funktion und die Zahl der inneren Kollokationspunkte kann je nach dem finiten Element variieren Der residuale Fehler wird an quidistanten Knotenpunkten ausgewertet und ermöglicht so die Genauigkeit der Lösung zwischen Kollokationspunkten zu überprüfen Die Lösungsfunktionen können tabellarisiert werden Es gibt auch die Möglichkeit die Kontrollvektor Parametrisierung zu verwenden um die dynamischen Optimierungsprobleme zu lösen wenn das Modell aus Anfangswertaufgaben besteht Diese Methode soll angewendet werden wenn das Modell viele Differentialgleichungen enthält oder die obere Grenze der Integration gleichzeitig eine zu optimal wählende Variable ist Das Programm ist von VAX FORTRAN 77 in IBM FORTRAN 77 und SUN SPARC 2000 FORTRAN 77 konvertiert

Dynamics of Data Envelopment Analysis Jati Sengupta,2013-11-11 Data envelopment analysis develops a set of nonparametric and semiparametric techniques for measuring economic efficiency among firms and nonprofit organizations Over the past decade this technique has found most widespread applications in public sector organizations However these applications have been

mostly static This monograph extends this static framework of efficiency analysis in several new directions These include but are not limited to the following 1 a dynamic view of the production and cost frontier where capital inputs are treated differently from the current inputs 2 a direct role of the technological progress and regress which is so often stressed in total factor productivity discussion in modern growth theory in economics 3 stochastic efficiency in a dynamic setting where reliability improvement competes with technical efficiency 4 flexible manufacturing systems where flexibility of the production process and the economies of scope play an important role in efficiency analysis and 5 the role of economic factors such as externalities and input interdependences Efficiency is viewed here in the framework of a general systems theory model Such a view is intended to broaden the scope of applications of this promising new technique of data envelopment analysis The monograph stresses the various applied aspects of the dynamic theory so that it can be empirically implemented in different situations As far as possible abstract mathematical treatments are avoided and emphasis placed on the statistical examples and empirical illustrations

The 1985 Symposium on Systems Analysis in Forest Resources Society of American Foresters, 1987

Control Applications of Nonlinear Programming and Optimization G. Di Pillo, 2014-05-17 Control Applications of Nonlinear Programming and Optimization presents the proceedings of the Fifth IFAC Workshop held in Capri Italy on June 11 14 1985 The book covers various aspects of the optimization of control systems and of the numerical solution of optimization problems The text also discusses specific applications concerned with the optimization of aircraft trajectories of mineral and metallurgical processes of wind tunnels and of nuclear reactors The book also considers computer aided design of control systems The book is useful to mathematicians engineers and computer engineers

Numerical Techniques for Stochastic Systems Francesco Archetti, Marco Cugiani, 1980

Applications of Nonlinear Programming to Optimization and Control H. E. Rauch, 2014-05-23 Applications of Nonlinear Programming to Optimization and Control is a collection of papers presented at the Fourth International Federation of Automatic Control Workshop by the same title held in San Francisco California on June 20 21 1983 This workshop aims to exchange information on the applications of optimization and nonlinear programming techniques to real life control problems to investigate ideas that arise from these exchanges and to look for advances in nonlinear programming that are useful in solving control problems This book is divided into 16 chapters It covers a wide range of related topics starting with computer aided design of practical control systems continuing through advanced work on quasi Newton methods and gradient restoration algorithms Other chapters provide specific examples which apply these methods to representative problems The remaining chapters present examples including trajectory optimization optimal design of a structure for a satellite identification of hovercraft characteristics determination of optimal electricity generation and optimal automatic transmission for road vehicles This book is of value to computer scientists and mathematicians

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of the International Federation of Automatic Control Workshop on Control Applications of Nonlinear Programming held in Denver Colorado on June 21 1979 The workshop provided a forum for discussing the application of optimal and nonlinear programming techniques to real life control problems The volume covers a variety of specific applications ranging from microprocessor control of automotive engines and optimal design of structures to optimal aircraft trajectories system identification and robotics Comprised of 14 chapters this book begins by describing the application of nonlinear programming to an optimum design problem coming from mechanical engineering The reader is then introduced to a nonlinear regulator design for magnetic suspension optimal control solution of the automotive emission constrained minimum fuel problem and nonlinear programming for system identification Subsequent chapters focus on mathematical programming algorithms based on Lagrangian functions for solving optimal control problems computer aided design via optimization optimal and suboptimal control of oscillating dynamical systems and the application of nonlinear programming to the solution of optimal output constrained regulator problems This monograph will be of interest to mathematicians computer scientists and engineers

African Americans in Mathematics II Nathaniel Dean,1999 This volume presents the proceedings of the Fourth Conference for African American Researchers in the Mathematical Sciences held at the Center for Research on Parallel Computation at Rice University Houston The included talks and poster presentations offer a broad perspective to the critical issues involving minority participation in mathematics The issues explored are relevant not only to African American researchers but also to the mathematical community in general This volume is the second published by the AMS see DIMACS series volume 15 presenting expository and research papers by distinguished African American mathematicians In addition to filling the existing gap on African American contributions to mathematics this book provides leadership direction and role models for students

Revue Roumaine de Mathématiques Pures Et Appliquées ,1992 **An Investigation of New Methods for Estimating Parameter Sensitivities** Todd J. Beltracchi,1989 **NASA Contractor Report** ,1989

INTERNATIONAL CONFERENCE on NONLINEAR OPTIMIZATION AND APPLICATIONS(1979) Unione matematica italiana,1980 Neural Network Modeling and Identification of Dynamical Systems Yury Tiumentsev,Mikhail

Egorchev,2019-05-17 Neural Network Modeling and Identification of Dynamical Systems presents a new approach on how to obtain the adaptive neural network models for complex systems that are typically found in real world applications The book introduces the theoretical knowledge available for the modeled system into the purely empirical black box model thereby converting the model to the gray box category This approach significantly reduces the dimension of the resulting model and the required size of the training set This book offers solutions for identifying controlled dynamical systems as well as identifying characteristics of such systems in particular the aerodynamic characteristics of aircraft Covers both types of dynamic neural networks black box and gray box including their structure synthesis and training Offers application examples of dynamic neural network technologies primarily related to aircraft Provides an overview of recent achievements and future

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