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Power Systems & Power Plant Control Elsevier Health Sciences
The control of power systems and power plants is a subject of worldwide interest which continues to sustain a high level of research, development and application in many diverse yet complementary areas. Papers pertaining to 13 areas directly related to power systems and representing state-of-the-art methods are included in this volume. The topics covered include linear and nonlinear optimization, static and dynamic state estimation, security analysis, generation control, excitation and voltage control, power plant modelling and control, stability analysis, emergency and restorative controls, large-scale sparse matrix techniques, data communication, microcomputer systems, power system stabilizers, load forecasting, optimum generation scheduling and power system control centers. The compilation of this information in one volume makes it essential reading for a comprehension of the current knowledge in the field of power control.

Control and Dynamic Systems V16 Elsevier
This volume, published in honor of Prof. Luigi Crocco, appears when Luigi Crocco celebrates his 75th birthday of a life devoted to study, research, and teaching. The events in his life and World War II forced Luigi Crocco, as well as other Italian scientists, to look to foreign countries for the calm haven so vital to study. This notwithstanding, his scientific activity was never inter rupted, and this volume is an acknowledgment of scientists and researchers to his work and life. Prefazione Questo volume in onore del prof. ing. Luigi Crocco vede la luce quando Luigi Crocco compie i 75 anni di una vita dedicata allo studio, alia ricerca e all'insegnamento. a Le vicende della vita, ed anche della 2 guerra mondiale, hanno costretto Luigi Crocco, come altri scienziati italiani, a dover cercare in altri Paesi quella serenita necessaria per dedicarsi allo studio. Ma la sua attivita scientifica non ha avuto interruzioni e questo volume essere la testimonianza di studiosi e di ricercatori alia sua opera e alia sua vita."

Optimal Spacecraft Rotational Maneuvers Academic Press
This work describes all basic equaitons and inequalities that form the necessary and sufficient optimality conditions of variational calculus and the theory of optimal control. Subjects addressed include developments in the investigation of optimality conditions, new classes of solutions, analytical and computation methods, and applications.

Blueprint Springer Science & Business Media
Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations covers the proceedings of the 1974 Symposium by the same title, held at the University of Maryland, Baltimore Country Campus. This symposium aims to bring together a number of numerical analysis involved in research in both theoretical and practical aspects of this field. This text is organized into three parts encompassing 15 chapters. Part I reviews the initial and boundary value problems. Part II explores a large number of important results of both theoretical and practical nature of the field, including discussions of the smooth and local interpolant with small K-th derivative, the occurrence and solution of boundary value reaction systems, the posteriori error estimates, and boundary problem solvers for first order systems based on deferred corrections. Part III highlights the practical applications of the boundary value problems, specifically a high-order finite-difference method for the solution of two-point boundary-value problems on a uniform mesh. This book will prove useful to mathematicians, engineers, and physicists.

Soviet Electrical Engineering Open Text Corporation
/homepage/sac/cam/na2000/index.html7-Volume Set now available at special set price ! In one of the papers in this collection, the remark that "nothing at all takes place in the universe in which some rule of maximum of minimum does not appear" is attributed to no less an authority than Euler. Simplifying the syntax a little, we might paraphrase this as Everything is an optimization problem. While this might be something of an overstatement, the element of exaggeration is certainly reduced if we consider the extended form: Everything is an optimization problem or a system of equations. This observation, even if only partly true, stands as a fitting testimonial to the importance of the work covered by this volume. Since the 1960s, much effort has gone into the development and application of numerical algorithms for solving problems in the two areas of optimization and systems of equations. As a result, many different ideas have been proposed for dealing efficiently with (for example) severe nonlinearities and/or very large numbers of variables. Libraries of powerful software now embody the most successful of these ideas, and one objective of this volume is to assist potential users in choosing appropriate software for the problems they need to solve. More generally, however, these collected review articles are intended to provide both researchers and practitioners with snapshots of the 'state-of-the-art' with regard to algorithms for particular classes of problem. These snapshots are meant to have the virtues of immediacy through the inclusion of very recent ideas, but they also have sufficient depth of field to show how ideas have developed and how today's research questions have grown out of previous solution attempts. The most efficient methods for local optimization, both unconstrained and constrained, are still derived from the classical Newton approach. As well as dealing in depth with the various classical, or neo-classical, approaches, the selection of papers on optimization in this volume ensures that newer ideas are also well represented. Solving nonlinear algebraic systems of equations is closely related to optimization. The two are not completely equivalent, however, and usually something is lost in the translation. Algorithms for nonlinear equations can be roughly classified as locally convergent or globally convergent. The characterization is not perfect. Locally convergent algorithms include Newton's method, modern quasi-Newton variants of Newton's method, and trust region methods. All of these approaches are well represented in this volume.

Applied Economics, Business and Development Springer Science & Business Media
This monograph is a study of optimal control applied to cancer chemotherapy, the treatment of cancer using drugs that kill cancer cells. The aim is to determine whether current methods for the administration of chemotherapy are optimal, and if alternative regimens should be considered.The research utilizes the mathematical theory of optimal control, an active research area for many mathematicians, scientists, and engineers. It is of multidisciplinary nature, having been applied to areas ranging from engineering to biomedicine. The aim in optimal control is to achieve a given objective at minimum cost. A set of differential equations is used to describe the evolution in time of the process being modelled, and constraints limit the policies that can be used to attain the objective.In this monograph, mathematical models are used to construct optimal drug schedules. These are treatment guidelines specifying which drug to deliver, when, and at what dose. Many current drug schedules have been derived empirically, based upon ?rules of thumb?.The monograph has been structured so that most of the high-level mathematics is introduced in a special appendix. In this way, a scientist can skip the more subtle aspects of the theory and still understand the biomedical applications that follow. However, the text is self-contained so that a deeper understanding of the mathematics of optimal control can be gained from the mathematical appendix.The mathematical models in this book and the associated computer simulations show that low intensity chemotherapy is a better choice of treatment than high intensity chemotherapy, under certain conditions.

Global Methods in Optimal Control Theory Bloomsbury Publishing
Computer aided process engineering (CAPE) plays a key design and operations role in the process industries. This conference features presentations by CAPE specialists and addresses strategic planning, supply chain issues and the increasingly important area of sustainability audits. Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development: environmental, social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals. Contributions from the international community of researchers and engineers using computing-based methods in process engineering Review of the latest developments in process systems engineering Emphasis on a systems approach in tackling industrial and societal grand challenges

ECM Solutions Springer Science & Business Media
This four-volume-set (CCIS 208, 209, 210, 211) constitutes the refereed proceedings of the International Symposium on Applied Economics, Business and Development, ISAEBD 2011, held in Dalian, China, in August 2011. The papers address issues related to Applied Economics, Business and Development and cover various research areas including Economics, Management, Education and its Applications.

Scientific and Technical Aerospace Reports Elsevier
The changing manufacturing environment requires more responsive and adaptable manufacturing systems. The theme of the 5th International Conference on Changeable, Agile, Reconfigurable and Virtual production (CARV2013) is "Enabling Manufacturing Competitiveness and Economic Sustainability. Leading edge research and best implementation practices and experiences, which address these important issues and challenges, are presented. The proceedings include advances in manufacturing systems design, planning, evaluation, control and evolving paradigms such as mass customization, personalization, changeability, re-configurability and flexibility. New and important concepts such as the dynamic product families and platforms, co-evolution of products and systems, and methods for enhancing manufacturing systems' economic sustainability and prolonging their life to produce more than one product generation are treated. Enablers of change in manufacturing systems, production volume and capability, scalability and managing the volatility of markets, competition among global enterprises and the increasing complexity of products, manufacturing systems and management strategies are discussed. Industry challenges and future directions for research and development needed to help both practitioners and academicians are presented. About the Editor Prof. Dr.-Ing. Michael F. Zaeh, born in 1963, has been and is Professor for and Manufacturing Technology since 2002 and, together with Prof. Dr.-Ing. Gunther Reinhart, Head of the Institute for Machine Tools and Industrial Management (iwb) at the Technische Universitaet Muenchen (TUM). After studying general mechanical engineering, he was doctoral candidate under Prof. Dr.-Ing. Joachim Milberg at TUM from 1990 until 1993 and received his doctorate in 1993. From 1994 to 1995, he was department leader under Prof. Dr.-Ing. Gunther Reinhart. From 1996 to 2002, he worked for a machine tool manufacturer in several positions, most recently as a member of the extended management. Prof. Dr.-Ing. Michael F. Zaeh is an associated member of the CIRP and member of acatech, WGP and WLP. His current researches include among others Joining and Cutting Technologies like Laser Cutting and Welding as well as Friction Stir Welding, Structural Behaviour and Energy Efficiency of Machine Tools and Manufacturing Processes like Additive Manufacturing.

Optimal Control of Drug Administration in Cancer Chemotherapy Springer
Control and Dynamic Systems: Advances in Theory in Applications, Volume 32: Advances in Aerospace Systems Dynamics and Control Systems, Part 2 of 3 deals with significant advances in technologies which support the development of aerospace systems. It also presents several algorithms and computational techniques used in complex aerospace systems. After discussing flight management systems (FMS), this volume presents techniques for treating complex aerospace systems models. These techniques include parameter identification, asymptotic perturbation method, reliability techniques, constrained optimization techniques, and computation methods for decoy discrimination and optimal targeting. This book is an excellent reference for research and professional workers in the field who want a comprehensive source of techniques with significant applied implications.

Imperfectly Natural Woman Elsevier
The new edition of this highly successful textbook draws on the authors' extensive industry experience and academic research to provide a concise and practical approach to developing and implementing strategies. Offering a highly readable text alongside an effective mix of theory, case studies and updated pedagogical features, the book covers both strategic and managerial elements of innovation. The tools described by the well-respected and authoritative author team can be used to improve performance in both service and manufacturing companies, and the text is an excellent practical resource for students and managers alike. This textbook caters primarily for MBA and executive students of Innovation Management. In addition, it is an essential text for upper level undergraduate and postgraduate students of Innovation Management, as well as for practitioners seeking to enhance their understanding of the subject. New to this Edition: - Updated and expanded coverage throughout based on a review of over 250 key publications on innovation management - 86 international case studies that illustrate both the theory and practice of managing innovation - Video interviews on the companion website to accompany case studies from each chapter, featuring high-profile business managers from around the world - Reflective questions for students at the end of each chapter, with suggested answers on the companion website

American Laboratory Academic Press
This monograph has grown out of the authors' recent work directed toward solving a family of problems which arise in maneuvering modern spacecraft. The work ranges from fundamental developments in analytical dynamics and optimal control to a significant collection of example applications. The primary emphasis herein is upon the most central analytical and numerical methods for determining optimal rotational maneuvers of spacecraft. The authors focus especially upon the large angle nonlinear maneuvers, and also consider large rotational maneuvers of flexible vehicles with simultaneous vibration

suppression/arrest. Each chapter includes a list of references.The book provides much new material which will be of great interest to practising professionals and advanced graduate students working in the general areas of spacecraft technology, applied mathematics, optimal control theory, and numerical optimization. Chapter 11 in particular presents new information that will be found widely useful for terminal control and tracking maneuvers.

Nonlinear Equations and Optimisation CRC Press

Applied Nonlinear Analysis contains the proceedings of an International Conference on Applied Nonlinear Analysis, held at the University of Texas at Arlington, on April 20-22, 1978. The papers explore advances in applied nonlinear analysis, with emphasis on reaction-diffusion equations; optimization theory; constructive techniques in numerical analysis; and applications to physical and life sciences. In the area of reaction-diffusion equations, the discussions focus on nonlinear oscillations; rotating spiral waves; stability and asymptotic behavior; discrete-time models in population genetics; and predator-prey systems. In optimization theory, the following topics are considered: inverse and ill-posed problems with application to geophysics; conjugate gradients; and quasi-Newton methods with applications to large-scale optimization; sequential conjugate gradient-restoration algorithm for optimal control problems with non-differentiable constraints; differential geometric methods in nonlinear programming; and equilibria in policy formation games with random voting. In the area of constructive techniques in numerical analysis, numerical and approximate solutions of boundary value problems for ordinary and partial differential equations are examined, along with finite element analysis and constructive techniques for accretive and monotone operators. In addition, the book explores turbulent fluid flows; stability problems for Hopf bifurcation; product integral representation of Volterra equations with delay; weak solutions of variational problems, nonlinear integration on measures; and fixed point theory. This monograph will be helpful to students, practitioners, and researchers in the field of mathematics.

Summaries of Projects Completed Elsevier

These Proceedings provide valuable information on the exchange of ideas between scientists who apply nonlinear programming and optimization to real world control problems and those who develop new methods, algorithms and software. The papers deal with windshear problems, optimization of aircraft and spacecraft trajectories, optimal control for robots, the optimization of urban traffic control, general mechanical systems, multilevel inventory systems and robust control.

Equine Surgery - E-Book Springer

Control and Dynamic Systems: Advances in Theory and Application, Volume 16 is concerned with applied dynamic systems control techniques. It describes various techniques for system modeling, which apply to several systems issues. This book presents a comprehensive treatment of powerful algorithmic techniques for solving dynamic-system optimization problems. It also describes approaches for systems model that apply to system issues such as time delays. The remaining chapters of this book explore the simulation of large closed-loop systems and optimization of low-order feedback controllers for discrete-time systems. Researchers who wish to broaden their understanding of dynamic systems control techniques will find this book invaluable.

IAG 150 Years Elsevier

Equip yourself for success with the only book on the market that covers all aspects of equine surgery! Equine Surgery, 5th Edition prepares you to manage each surgical condition by understanding its pathophysiology and evaluating alternative surgical approaches. Explanations in the book describe how to avoid surgical infections, select and use instruments, and perfect fundamental surgical techniques including incisions, cautery, retractions, irrigation, surgical suction, wound closure, dressings, bandages, and casts. In addition to diagnostic imaging and orthopedic coverage, it includes in-depth information on anesthesia, the integumentary system (including wound management, reconstructive surgery, and skin grafting), the alimentary system, respiratory, and urogenital systems. Complete coverage of all the information needed to study for the American and European College of Veterinary Surgeons Board Examinations makes this edition an excellent study tool. Section on anesthesiology and pain management prepares you to manage these critical aspects of any surgery. Extensive, up-to-date orthopedic coverage includes joint disorders and joint trauma. Section on integumentary system contains information on wound management, reconstructive surgery, and skin grafting. Section on the alimentary system covers postoperative care, complications and reoperation guidelines. New techniques in vascular surgery keep you up-to-date with best practices. NEW! Expert Consult site offering 40+ videos of surgeons performing techniques so that you can quickly access drug and equipment information. NEW! Expansion of minimally invasive surgical techniques includes laser ablation procedures, implantation of plates against bones in orthopedic procedures, and laparoscopic procedures for soft tissue injuries. NEW! World-renowned contributors, featuring two new associate editors include over 70 of the most experienced and expert equine specialist surgeons, each providing current and accurate information. NEW! Current advances in imaging detect musculoskeletal conditions in the sports horse.

Innovation Management Elsevier

If the closest you've ever come to natural living is choosing the 'light' version of mayonnaise - this book is for you. If the only recycling you've ever done is chucking your wine bottles into the car park's bottle bin just to rejoice in the crashing sound - it's still for you.

Metropolis Elsevier

This proceedings contains a selection of peer-reviewed papers presented at the IAG Scientific Assembly, Postdam, Germany, 1-6 September, 2013. The scientific sessions were focussed on the definition, implementation and scientific applications of reference frames; gravity field determination and applications; the observation and assessment of earth hazards. It presents a collection of the contributions on the applications of earth rotations dynamics, on observation systems and services as well as on imaging and positioning techniques and its applications.

NASA Technical Note World Scientific

This book contains refereed papers which were presented at the 34th Workshop of the International School of Mathematics "G. Stampacchia, " the International Workshop on Optimization and Control with Applications. The book contains 28 papers that are grouped according to four broad topics: duality and optimality conditions, optimization algorithms, optimal control, and variational inequality and equilibrium problems. The specific topics covered in the individual chapters include optimal control, unconstrained and constrained optimization, complementarity and variational inequalities, equilibrium problems, semi-definite programs, semi-infinite programs, matrix functions and equations, nonsmooth optimization, generalized convexity and generalized monotinicity, and their applications. Audience This book is suitable for researchers, practitioners, and postgraduate students in optimization, operations research, and optimal control.

Control Applications of Nonlinear Programming and Optimization 1989 Crown House Publishing

Advances in Control Systems: Theory and Applications, Volume 8 provides information pertinent to significant progress in the field of control and systems theory and applications. This book focuses on applications to large-scale systems. Organized into seven chapters, this volume begins with an overview of an effective algorithm for dynamic system organization with state variable constraints. This text then explores a number of effective techniques for the analysis and syntheses of final value control systems. Other chapters consider some significant problems associated with the practical application of Kalman Filter techniques. This book discusses as well the most significant and fundamental work on the international scene in the development of effective algorithms for dynamic system optimization. The final chapter deals with the application of modern control methods of complex industrial process control problems. This book is a valuable resource for mathematicians, control system engineers, physical scientists, economists, econometricians, and research workers.