

Lecture Notes in Control and Information Sciences

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Liu Chen Hui

General Decoupling Theory
of Multivariable
Process Control Systems



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Bruno Siciliano, Kimon P. Valavanis



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Finite-Spectrum Assignment for Time-Delay Systems Qing-Guo Wang, Tong H. Lee, Kok K. Tan, 2007-10-03 The presence of considerable time delays in many industrial processes is well recognized and achievable performances of conventional unity feedback control systems are degraded if a process has a relatively large time delay compared to its time constants. In this case, dead time compensation is necessary in order to enhance the performances. The most popular scheme for such compensation is the Smith Predictor, but it is unsuitable for unstable or lightly damped processes because the compensated closed loop system always contains the process poles themselves. An alternative scheme for delay elimination from the closed loop is the finite spectrum assignment (FSA) strategy, and it can arbitrarily assign the closed loop spectrum. One may note that the Smith Predictor Control can be found in delay systems control books and many process control books, but the FSA control is rarely included in these books. It is therefore timely and desirable to fill this gap by writing a book which gives a comprehensive treatment of the FSA approach. This is useful and worthwhile since the FSA provides not only an alternative way but also certain advantages over the Smith Predictor. The book presents the state of the art of the finite spectrum assignment for time delay systems in frequency domain. It mainly contains those works carried out recently by the authors in this field. Most of them have been published and others are awaiting publication. They are assembled together and reorganized in such a way that the presentation is logical, smooth, and systematic.

Stability and Stabilization of Nonlinear Systems Dirk Aeyels, Francoise Lamnabhi-Lagarrigue, Arjan van der Schaft, 2008-01-26 These papers were presented at the first EC TMR Nonlinear Control Network Workshop on Stability and Stabilization of Nonlinear Systems that took place in March 1999, Ghent, Belgium. The TMR programme offers a unique opportunity for the academic community to expand their knowledge, share their experience, and identify and discuss strategic issues in aspects of nonlinear control engineering. The aim is to create a resource centre of available expertise and research interests. This outstanding reference volume presents current and emerging research directions including stability analysis of nonlinear dynamical systems and converse Lyapunov theorems, stabilization and regulation of nonlinear dynamical control systems, control of physical systems using physics based Lyapunov functions and passivity, as well as bifurcation analysis and optimal control. This collection of peer reviewed papers provides a comprehensive overview of this field of research for graduate students and researchers in engineering and applied mathematics.

ROMANSY 11 A. Morecki, G. Bianchi, C. Rzymkowski, 2014-05-04 The CISM IFToMM RoManSy Symposia have played a dynamic role in the development of the theory and practice of robotics. The proceedings of the eleven symposia to date present a world view of the state of the art. The proceedings of this eleventh edition focus mainly on problems of mechanical engineering and control.

Workshop on High Performance Computing and Gigabit Local Area Networks G. Cooperman, G. Michler, H. Vinck, 2006-04-11 The combination of fast, low latency networks and high performance distributed tools for mathematical software has resulted in widespread, affordable scientific computing facilities. Practitioners

working in the fields of computer communication networks distributed computing computational algebra and numerical analysis have been brought together to contribute to this volume and explore the emerging distributed and parallel technology in a scientific environment This collection includes surveys and original research on both software infrastructure for parallel applications and hardware and architecture infrastructure Among the topics covered are switch based high speed networks ATM over local and wide area networks network performance application support finite element methods eigenvalue problems invariant subspace decomposition QR factorization and Todd Coxeter coset enumeration **Journal**

of Dynamic Systems, Measurement, and Control, 1996 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality **Progress in System and Robot Analysis and Control Design** Spyros G.

Tzafestas, 1999-05-14 The fields of control and robotics are now at an advanced level of maturity both in theory and practice Numerous systems are used effectively in industrial production and other sectors of modern life This volume contains a well balanced collection of over fifty papers focusing on analysis and design problems The current trends and advances in the fields are reflected Topics covered include system analysis identification and stability optimal adaptive robust and QFT controller design design and application of driving simulators industrial robots and telemanipulators mobile service and legged robots virtual reality in robotics The book brings together important original results derived from a variety of academic and engineering environments Also it serves as a timely reference volume for the researcher and practitioner

Control of Indefinite Nonlinear Dynamic Systems Stanislav Vasil'evich Emel'ianov, Isaak A. Burovoi, Fedor Yu. Levada, 1998-01-30 This book is written for the wide circle of readers who take an interest in concepts of basic sciences specifically cybernetics automation and control It aims to provide a new technique for the solution of a range of automatic control problems using new types of feedback loops Simple examples are used to illustrate the basic problems the important aspects of the theory of automatic control and the difficulties that have to be faced when considering the automation of actual objects Control of Indefinite Nonlinear Dynamic Systems is the first book to set out an effective regular procedure for the synthesis of robust feedback loops This signifies an advancement in the area of general feedback which deal with problems of robust control under conditions of uncertainty Directory of Published Proceedings, 1993 Control

Problems in Robotics and Automation Bruno Siciliano, Kimon P. Valavanis, 1998-01-20 Focusing on the important control problems in state of the art robotics and automation this volume features invited papers from a workshop held at CDC San Diego California As well as looking at current problems it aims to identify and discuss challenging issues that are yet to be solved but which will be vital to future research directions The many topics covered include automatic control distributed multi agent control multirobots dexterous hands flexible manipulators walking robots free floating systems nonholonomic

robots sensor fusion fuzzy control virtual reality visual servoing and task synchronization Control Problems in Robotics and Automation will be of interest to all researchers scientists and graduate students who wish to broaden their knowledge in robotics and automation and prepare themselves to address and resolve the control problems that will be faced in this field as we enter the twenty first century **Control of Uncertain Systems with Bounded Inputs** Sophie

Tarbouriech,1997-07-04 In practical control problems many constraints have to be handled in order to design controllers which operate in a real environment By combining results on robust control and saturating control this book attempts to provide positive help for practical situations and as one of the first books to merge the two control fields it should generate considerable interest in scientific academic circles The ten chapters which deal with stabilization and control of both linear and nonlinear systems are each independent in their approach some deal purely with theoretical results whilst others concentrate on ways in which the theory can be applied The book's unity is secured by the desire to formulate control design requirements through constraints on input and model uncertainty description

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