

# Lecture Notes in Control and Information Sciences

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Y. T. Tsay, L.-S. Shieh,  
S. Barnett

**Structural Analysis and Design  
of Multivariable Control Systems**  
*An Algebraic Approach*



Springer-Verlag  
Berlin Heidelberg GmbH

# Structural Analysis And Design Of Multivariable Control Systems

**Vladimír Strejc**



## **Structural Analysis And Design Of Multivariable Control Systems:**

*Structural Analysis and Design of Multivariable Control Systems* Yih T. Tsay, Leang-San Shieh, Stephen Barnett, 2014-03-12 The purpose of this research monograph is to utilize algebraic and systems theory for the structure analysis and design of multivariable control systems described by state space representations and matrix fraction descriptions A unified approach characterizing the dynamics of a system through the formulation of the characteristic matrix of the system is presented The latent structures solvents divisors and spectral factors of the non singular characteristic matrix and their relationships with the respective counterparts of the state space representations are explored Applications in model reduction pole assignment design modal control design for multivariable systems parallel realizations and cascade realizations of multiport networks are illustrated Computational algorithms and illustrative numerical examples are presented throughout the monograph The reader is assumed to have a graduate level background in modern control theory

*Algebraic Theory for Structural Analysis and Design of Multivariable Control Systems* Yih Tsong Tsay, 1983

*Multivariable Feedback Control* Sigurd Skogestad, Ian Postlethwaite, 1996-08-06 This book provides an introduction to the analysis and design of robust multivariable control and focuses on control engineering and not system theory Main topics covered in this book are multivariable systems model uncertainty and robustness interactions between design and control decentralized control and other special control structures overview of methods for controller design and model reduction

*Multivariable Control Systems* Pedro Albertos, Sala Antonio, 2006-04-18 This book focuses on control design with continual references to the practical aspects of implementation While the concepts of multivariable control are justified the book emphasizes the need to maintain student interest and motivation over exhaustively rigorous mathematical proof

### **Structure Theories and Applications of Multivariable Control Systems Described by Block Canonical Forms**

Leang S. Shieh, HOUSTON UNIV TX DEPT OF ELECTRICAL ENGINEERING., 1987 Several block canonical forms for describing a class of multivariable control systems have been developed in this project Based on these canonical structures some algebraic and geometric theories have been developed for analysis and design of multivariable control systems Several matrix valued functions have been defined and computational algorithms have been established for computing these matrix valued functions These matrix valued functions and associated computational algorithms have been utilized for analysis and design of general large scale continuous time and discrete time systems Based on these research results twenty two papers have been published in the referred journals Keywords Control theory Linear systems Matrix algebra Abstracts

**Multivariable Control Systems** P. Albertos Pérez, Sala Antonio, 2004 Multivariable Control Systems focuses on control design with continual references to the practical aspects of implementation While the concepts of multivariable control are justified the book emphasises the need to maintain student interest and motivation over exhaustive mathematical proof Tools of analysis and representation are always developed as methods for achieving a final control system design and evaluation

Features design implementation laid out using extensive reference to MATLAB combined consideration of systems plant and signals mainly disturbances step by step approach from the objectives of multivariable control to the solution of complete design problems Multivariable Control Systems is an ideal text for graduate students or for final year undergraduates looking for more depth than provided by introductory textbooks It will also interest the control engineer practising in industry and seeking to implement robust or multivariable control solutions to plant problems **NASA Technical Paper**, 1991

**Algorithms for Computer-Aided Design of Multivariable Control Systems** S. Bingulac, 1993-06-16 This reference text discusses the structure and concepts of multivariable control systems offering a balanced presentation of theory algorithm development and methods of implementation The book contains a powerful software package L A S Linear Algebra and Systems which provides a tool for verifying an analysis technique or control design Reviewing the fundamentals of linear algebra and system theory Algorithms for Computer Aided Design of Multivariable Control Systems supplies a solid basis for understanding multivariable systems and their characteristics highlights the most relevant mathematical developments while keeping proofs and detailed derivations to a minimum emphasizes the use of computer algorithms provides special sections of application problems and their solutions to enhance learning presents a unified theory of linear multi input multi output MIMO system models and introduces new results based on pseudo controllability and pseudo observability indices furnishing algorithms for more accurate internodel conversions Illustrated with figures tables and display equations and containing many previously unpublished results Algorithms for Computer Aided Design of Multivariable Control Systems is a reference for electrical and electronics mechanical and control engineers and systems analysts as well as a text for upper level undergraduate graduate and continuing education courses in multivariable control *Multivariable Control System Design Techniques* G. F. Bryant, L. F. Yeung, 1996-07-25 Frequency domain based techniques are used for analysing and designing multivariable control systems The focus of this new book centres on two related concepts that of dominance and the application of ideas from direct methods of matrix inversion to the problems of multivariable and sequential design Written from a practical perspective the text highlights several sequential design ideas including Developments of a rigorous sequential design methodology and analysis based on Gauss Jordan concepts Presentation of frequency domain analogies of the direct methods of matrix inversion obtaining new and exact sequential design and stability results Discussion of procedures for obtaining and optimising dominance criteria including input output optimum assignment optimum scaling and the use of parameterised precompensators This detailed study written by two well known researchers in the field will greatly appeal to practising engineers in process control chemical and mechanical engineering Researchers concerned with systems design will also find this an invaluable reference source System Structure and Control Vladimír Strejc, 1992 Provides a useful reference source on system structure and control Covers linear systems nonlinear systems robust control implicit system chaotic systems singular and time varying systems **Multidisciplinary Optimization of Controlled Space**

**Structures with Global Sensitivity Equations** ,1991      **The Use of Structural Properties in Linear Multivariable Control Systems Design** Antonius Johannes Jozef van der Weiden,B. P. Th Veltman,      Industrial Digital Control Systems K. Warwick,D. Rees,1988 Includes Digital signals and systems Digital controllers for process control applications Design of digital controllers Control of time delay systems State space concepts System identification Introduction to discrete optimal control Multivariable control Adaptive control Computer aided design for industrial control systems Reliability and redundancy in microprocessor controllers Software and hardware aspects of industrial controller implementations Application of distributed digital control algorithms to power stations An expert system for process control      **Algorithms for the Analysis and Design of Multivariable Control Systems** Melissa M. Weiksnar,1983      **Scientific and Technical Aerospace Reports** ,1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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