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Multivariable Feedback Systems



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Multivariable Feedback Systems Springer Texts In Electrical Engineering

Frank M. Callier,Charles A. Desoer

Multivariable Feedback Systems Springer Texts In Electrical Engineering:

Multivariable Feedback Systems Frank M. Callier, Charles A. Desoer, 1982 *Multivariable Feedback Systems* F. M. Callier, C. A. Desoer, 1982-08-31 This volume is the result of our teaching in the last few years of a first year graduate course on multivariable feedback systems addressed to control engineers. The prerequisites are modest: an undergraduate course in control for acquaintance with concepts, terms and design goals, and a senior graduate course in linear systems. This volume covers lumped linear time invariant multi input multi output systems with strong emphasis on control problems. The purpose is to provide a rapid introduction to some of the main and simpler results of control theory and to provide access to the current literature. Note that our exposition pays particular attention to the time domain behavior of the systems under study. Note also that we cover neither optimization nor stochastic systems since these topics are treated in separate courses. As is obvious from its abundant literature, multivariable control is a very rapidly developing field. Consequently we have no expectation that our exposition will become definitive; however we hope that our efforts will be found useful. To get an idea of the contents we suggest reading carefully the table of contents and the introduction of the chapters. Roughly Chapter 1 is an introduction to feedback issues in a multivariable context, desensitization, large gain, singular values, etc. Chapters 2 and 3 cover the mathematical tools for handling transfer functions as polynomial matrix fractions and for studying systems described by polynomial matrices. Chapter 4 uses these tools to cover the general theory of interconnected systems.

Monographic Series Library of Congress, *Library of Congress Catalogs* Library of Congress, 1983 *International Books in Print, 1995* Barbara Hopkinson, [Anonymus AC01401231], 1995 **Multivariate Feedback Systems** Frank M. Callier, Charles A. Desoer, 1982 *Process Modelling and Model Analysis* Ian T. Cameron, Katalin Hangos, 2001-05-23

Process Modelling and Model Analysis describes the use of models in process engineering. Process engineering is all about manufacturing of just about anything. To manage processing and manufacturing systematically the engineer has to bring together many different techniques and analyses of the interaction between various aspects of the process. For example, process engineers would apply models to perform feasibility analyses of novel process designs, assess environmental impact and detect potential hazards or accidents. To manage complex systems and enable process design the behavior of systems is reduced to simple mathematical forms. This book provides a systematic approach to the mathematical development of process models and explains how to analyze those models. Additionally there is a comprehensive bibliography for further reading, a question and answer section and an accompanying Web site developed by the authors with additional data and exercises. Introduces a structured modeling methodology emphasizing the importance of the modeling goal and including key steps such as model verification, calibration and validation. Focuses on novel and advanced modeling techniques such as discrete, hybrid, hierarchical and empirical modeling. Illustrates the notions, tools and techniques of process modeling with examples and advanced applications. **Scientific and Technical Books and Serials in Print**, 1989 **Subject Guide to Books**

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