[PDF] Design Of Feedback Control Systems Solution Manual

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Design of Feedback Control Systems-Raymond T. Stefani 1994 Design examples at the end of most chapters support the text's strong design orientation, as do thorough discussions of design methods using root locus and Bode methods that go beyond rote memorization. An expanded, more versatile treatment of modeling includes a comprehensive variety of electrical, mechanical, and electromechanical systems. This gives instructors the option of emphasizing dynamic modeling, or using a system approach. Time domain compensation (an international design method), and pole placement (an important new design method) have been added. Row shifting is covered for Routh arrays, and several advanced topics such as loop transfer recovery and HY methods are also now covered. A software package--Program CC- Introductory Version--and accompanying manual are correlated to the text, providing coding examples that illustrate how coding produces computer results. The software also offers students valuable practice solving problems using a computer- a skill that will benefit them greatly in the workplace. *The revised and updated Third Edition of a proven text--a leader in its field; *Contains comprehensive design examples spanning a wide spectrum of topics; *Features a modular 'building block' organization. *Correlates to an introductory version of Program CC software, which is available separately with an accompanying manual. The software provides coding examples that illustrate how coding produces computer results. 'Program CC Examples' are provided at the ends of many chapters.
Design of Feedback Control Systems-Raymond T. Stefani 2002 Each topic is preceded by analytical considerations that provide a well-organized parallel treatment of analysis and design. Design is presented in separate chapters devoted to root locus, frequency domain, and state space viewpoints. Treating the use of computers as a means rather than as an end, this student-friendly book contains new "Computer-Aided Learning" sections that demonstrate how MATLAB can be used to verify all figures and tables in the text."--BOOK JACKET.
Design of feedback control systems- 1982
The Design of Feedback Control Systems Containing a Saturation Type Nonlinearity-Stanley F. Schmidt 1960
Feedback Control Systems-Uday A. Bakshi 2009 Linear control systems, Definitions & elements of control system, Open loop and closed loop control system, Feedback & feedforward control system, Linear & nonlinear control system.Transfer function by block diagram reduction technique & by signal flow graph analysis using Mason's gain formula.Time domain analysis control system, Steady state performance specifications.Time domain analysis : Transient response of first & second order system, For various test signals, Steady state performance specifications.Stability of control system, Determination of stability of control system, Routh Hurwitz criteria, Root locus technique.Frequency response of control system, Co-relation between time domain & frequency domain specifications, Bode plots, Calculation of phase margin and gain margin, Performance of lead and lag network in frequency domain analysis.Mapping theorem, Determination of stability using Nyquist's criterion.State variable representation of control system(SISO, MIMO), Conversion of state variable into transfer function & vice-versa, Solution of state equ., State transition matrix.Control system components, Error detectors, Potentiometers, Synchros, Actuators, Servomotors, Tacho generators, AC & DC servomotors, Stepper motors, Transfer function of AC, DC servosystems.
Feedback Control Systems-Charles L. Phillips 1991
Feedback Control Theory-John C. Doyle 2013-04-09 An excellent introduction to feedback control system design, this book offers a theoretical approach that captures the essential issues and can be applied to a wide range of practical problems. Its explorations of recent developments in the field emphasize the relationship of new procedures to classical control theory, with a focus on single input and output systems that keeps concepts accessible to students with limited backgrounds. The text is geared toward a single-semester senior course or a graduate-level class for students of electrical engineering. The opening chapters constitute a basic treatment of feedback design. Topics include a detailed formulation of the control design program, the fundamental issue of performance/stability robustness tradeoff, and the graphical design technique of loopshaping. Subsequent chapters extend the discussion of the loopshaping technique and connect it with notions of optimality. Concluding chapters examine controller design via optimization, offering a mathematical approach that is useful for multivariable systems.
Analysis and Design of Feedback Control Systems-George Julius Thaler 1960
Feedback Systems-Karl Johan Åström 2010-04-12 This book provides an introduction to the mathematics needed to model, analyze, and design feedback systems. It is an ideal textbook for undergraduate and graduate students, and is indispensable for researchers seeking a self-contained reference on control theory. Unlike most books on the subject, Feedback Systems develops transfer functions through the exponential response of a system, and is accessible across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. They provide exercises at the end of every chapter, and an accompanying electronic solutions manual is available. Feedback Systems is a complete one-volume resource for students and researchers in mathematics, engineering, and the sciences. Covers the mathematics needed to model, analyze, and design feedback systems Serves as an introductory textbook for students and a self-contained resource for researchers Includes exercises at the end of every chapter Features an electronic solutions manual Offers techniques applicable across a range of disciplines
Feedback Control Systems-Alex Abramovici 2012-12-06 Feedback Control Systems: A Fast Track Guide for Scientists and Engineers is an essential reference tool for: Electrical, mechanical and aerospace engineers who are developing or improving products, with a need to use feedback control systems. Faculty and graduate students in the fields of engineering and experimental science (e.g., physics) who are building their own high-performance measuring/test arrangements. Faculties teaching laboratory courses in engineering and measurement techniques, and the students taking those courses. Practising engineers, scientists, and students who need a quick intuitive education in the issues related to feedback control systems. Key features of Feedback Control Systems: The contents and the layout of the book are structured to ensure satisfactory proficiency for the novice designer. The authors provide the reader with a simple yet powerful method for designing control systems using several sensors or actuators. It offers a comprehensive control system troubleshooting and performance testing guide. From the reviewers: Control systems are ubiquitous and their use would be even more widespread if more people were competent in designing them. This book will play a valuable role in expanding the cadre of competent designers. This is a book that needed to be written, and its presentation is different from any other book on controls intended for a wide community of engineers and scientists. The book breaks the common cliché of style in the control literature that tends toward mathematical formality. Instead, the emphasis is on intuition and practical advice. The book contains a very valuable and novel heuristic treatment of the subject. .. one of the best examples of a book that describes the design cycle. The book will help satisfy the demand among practising engineers for a good introduction to control systems.
Design of Feedback Control Systems-Gene H. Hostetter 1993
Quantitative Feedback Design of Linear and Nonlinear Control Systems-Oded Yaniv 2013-04-17 Quantitative Feedback Design of Linear and Nonlinear Control Systems is a self-contained book dealing with the theory and practice of Quantitative Feedback Theory (QFT). The author presents feedback synthesis techniques for single-input single-output, multi-input multi-output linear time-invariant and nonlinear plants based on the QFT method. Included are design details and graphs which do not appear in the literature, which will enable engineers and researchers to understand QFT in greater depth. Engineers will be able to apply QFT and the design techniques to many applications, such as flight and chemical plant control, robotics, space, vehicle and military industries, and numerous other uses. All of the examples were implemented using Matlab® Version 5.3; the script file can be found at the author's Web site. QFT results in efficient designs because it synthesizes a controller for the exact amount of plant uncertainty, disturbances and required specifications. Quantitative Feedback Design of Linear and Nonlinear Control Systems is a pioneering work that illuminates QFT, making the theory - and practice - come alive.
Feedback Control in Systems Biology-Carlo Cosentino 2011-10-17 Like engineering systems, biological systems must also operate effectively in the presence of internal and external uncertainty—such as genetic mutations or temperature changes, for example. It is not surprising, then, that evolution has resulted in the widespread use of feedback, and research in systems biology over the past decade has shown that feedback control systems are widely found in biology. As an increasing number of researchers in the life sciences become interested in control-theoretic ideas such as feedback, stability, noise and disturbance attenuation, and robustness, there is a need for a text that explains feedback control as it applies to biological systems. Written by established researchers in both control engineering and systems biology, Feedback Control in Systems Biology explains how feedback control concepts can be applied to systems biology. Filling the need for a text on control theory for systems biologists, it provides an overview of relevant ideas and methods from control engineering and illustrates their application to the analysis of biological systems with case studies in cellular and molecular biology. Control Theory for Systems Biologists The book focuses on the fundamental concepts used to analyze the effects of feedback in biological control systems, rather than the control system design methods that form the core of most control textbooks. In addition, the authors do not assume that readers are familiar with control theory. They focus on "control applications" such as metabolic and gene-regulatory networks rather than aircraft, robots, or engines, and on mathematical models derived from classical reaction kinetics rather than classical mechanics. Another significant feature of the book is that it discusses nonlinear systems, an understanding of which is crucial for systems biologists because of the highly nonlinear nature of biological systems. The authors cover tools and techniques for the analysis of linear and nonlinear systems; negative and positive feedback; robustness analysis methods; techniques for the reverse-engineering of biological interaction networks; and the analysis of stochastic biological control systems. They also identify new research directions for control theory inspired by the dynamic characteristics of biological systems. A valuable reference for researchers, this text offers a sound starting point for scientists entering this fascinating and rapidly developing field.
Feedback Control Systems-John Vande Vegte 1994 A compact exploration of the behavior of dynamic systems and how this behaviour may be changed by the use of feedback. *explains concepts in the simplest possible mathematical framework and develops concepts of design in parallel with those of analysis. *includes extensive coverage of modeling of physical systems. *features two chapters on state space analysis and design. *provides two chapters on digital computer control. *expands coverage of the classical root locus and frequency response design techniques, provides stepwise procedures for each, with examples for each case, treats phase-lag, phase-lead, and PID control design in separate sections *provides an expanded and formalized treatment of block diagram reduction, following the derivation of such diagrams for physical systems, and a discussion of signal flow graphs and Masons Gain Formula. *introduces the s-plane in Chapter 1, permitting early coverage of transient response calculation. *discusses controller tuning. *provides introductory-level coverage of advanced topics such as multivariable (ch. 13) and nonlinear controls (ch. 14)
Linear Feedback Control-Dingyu Xue 2007 This book discusses analysis and design techniques for linear feedback control systems using MATLAB® software. By reducing the mathematics, increasing MATLAB working examples, and inserting short scripts and plots within the text, the authors have created a resource suitable for almost any type of user. The book begins with a summary of the properties of linear systems and addresses modeling and model reduction issues. In the subsequent chapters on analysis, the authors introduce time domain, complex plane, and frequency domain techniques. Their coverage of design includes discussions on model-based controller designs, PID controllers, and robust control designs. A unique aspect of the book is its inclusion of a chapter on fractional-order controllers, which are useful in control engineering practice.
Linear Feedback Controls-Mark A. Haidekker 2013-07-25 The design of control systems is at the very core of engineering. Feedback controls are ubiquitous, ranging from simple room thermostats to airplane engine control. Helping to make sense of this wide-ranging field, this book provides a new approach by keeping a tight focus on the essentials with a limited, yet consistent set of examples. Analysis and design methods are explained in terms of theory and practice. The book covers classical, linear feedback controls, and linear approximations are used when needed. In parallel, the book covers time-discrete (digital) control systems and juxtaposes time-continuous and time-discrete treatment when needed. One chapter covers the industry-standard PID control, and one chapter provides several design examples with proposed solutions to commonly encountered design problems. The book is ideal for upper level students in electrical engineering, mechanical engineering, biological/biomedical engineering, chemical engineering and agricultural and environmental engineering and provides a helpful refresher or introduction for graduate students and professionals Focuses on the essentials of control fundamentals, system analysis, mathematical description and modeling, and control design to guide the reader Illustrates the theory and practical application for each point using real-world examples Strands weave throughout the book, allowing the reader to understand clearly the use and limits of different analysis and design tools
Analysis and Design of Feedback Control Systems; Formerly, Servomechanism Analysis [by] George J. Thaler [and] Robert G. Brown-George Julius Thaler
Multivariable Feedback Control: Analysis and Design-Sigurd Skogestad 2014
Design and Analysis of Control Systems-Arthur G.O. Mutambara 2017-12-14 Written to inspire and cultivate the ability to design and analyze feasible control algorithms for a wide range of engineering applications, this comprehensive text covers the theoretical and practical principles involved in the design and analysis of control systems. From the development of the mathematical models for dynamic systems, the author shows how they are used to obtain system response and facilitate control, then addresses advanced topics, such as digital control systems, adaptive and robust control, and nonlinear control systems.
Synthesis of Feedback Systems-Isaac M. Horowitz 2013-10-22 Synthesis of Feedback Systems presents the feedback theory which exists in various feedback problems. This book provides techniques for the analysis and solution of these problems. The text begins with an introduction to feedback theory and exposition of problems of plant identification, representation, and analysis. Subsequent chapters are devoted to the application of the feedback point of view to any system; the principal useful properties of feedback; the feedback control system synthesis techniques; and the class of two degree-of-freedom feedback configurations and synthesis procedures appropriate for such configurations. The final chapter considers how to translate specifications from their typical original formulation, to the language appropriate for detailed design. The book is intended for engineers and graduate students of engineering design.
Feedback Control of Computing Systems-Joseph L. Hellerstein 2004-09-21 This is the first practical treatment of the design and applicationof feedback control of computing systems. MATLAB files for thesolution of problems and case studies accompany the textthroughout. The book discusses information technology examples,such as maximizing the efficiency of Lotus Notes. This book results from the authors' research into the use ofcontrol theory to model and control computing systems. This hasimportant implications to the way engineers and researchersapproach different resource management problems. This guide is wellsuited for professionals and researchers in information technologyand computer science.
Solutions Manual to Accompany Design of Feedback Control Systems-Raymond T. Stefani 1993-08
Control System Design-Bernard Friedland 2012-03-08 Introduction to state-space methods covers feedback control; state-space representation of dynamic systems and dynamics of linear systems; frequency-domain analysis; controllability and observability; shaping the dynamic response; more. 1986 edition.
Feedback Control for Computer Systems-Philipp K. Janert 2013-09-19 How can you take advantage of feedback control for enterprise programming? With this book, author Philipp K. Janert demonstrates how the same principles that govern cruise control in your car also apply to data center management and other enterprise systems. Through case studies and hands-on simulations, you'll learn methods to solve several control issues, including mechanisms to spin up more servers automatically when web traffic spikes. Feedback is ideal for controlling large, complex systems, but its use in software engineering raises unique issues. This book provides basic theory and lots of practical advice for programmers with no previous background in feedback control. Learn feedback concepts and controller design Get practical techniques for implementing and tuning controllers Use feedback "design patterns" for common control scenarios Maintain a cache's "hit rate" by automatically adjusting its size Respond to web traffic by scaling server instances automatically Explore ways to use feedback principles with queueing systems Learn how to control memory consumption in a game engine Take a deep dive into feedback control theory
Feedback Control Systems Loop Shaping Design with Practical Considerations-National Aeronaut Administration (Nasa) 2020-08-10 This paper describes loop shaping control design in feedback control systems, primarily from a practical stand point that considers design specifications. Classical feedback control design theory, for linear systems where the plant transfer function is known, has been around for a long time. But it s still a challenge of how to translate the theory into practical and methodical design techniques that simultaneously satisfy a variety of performance requirements such as transient response, stability, and disturbance attenuation while taking into account the capabilities of the plant and its actuation system. This paper briefly addresses some relevant theory, first in layman s terms, so that it becomes easily understood and then it embarks into a practical and systematic design approach incorporating loop shaping design coupled with lead-lag control compensation design. The emphasis is in generating simple but rather powerful design techniques that will allow even designers with a layman s knowledge in controls to develop effective feedback control designs. Kopsakis, George Glenn Research Center NASA/TM-2007-215007, E-16201 WBS 984754.02.07.03.20.02 CONTROL SYSTEMS DESIGN; FEEDBACK CONTROL; SPECIFICATIONS; DESIGN ANALYSIS; CONTROL THEORY; STABILITY; LINEAR SYSTEMS; TRANSFER FUNCTIONS; TRANSIENT RESPONSE
Introduction to Feedback Control Using Design Studies-Timothy McLain 2019-07-03 This textbook provides a unique introduction to Feedback Control. It differs from typical control books by presenting principles in the context of three specific design examples: a one link robot arm, a pendulum on a cart, and a satellite attitude problem. These three design examples illustrate the full process of implementing control strategies on mechanical systems. The book begins by introducing the Euler Lagrange method for modeling mechanical systems and discusses computer simulation of these models. Linear design models are developed, specifically transfer function and state space models, that capture the behavior of the system around equilibria. The book then presents three different design strategies for output feedback control: PID control, observer based design, and loopshaping design methods based on the frequency response of the system. Extensive examples show how the controllers are implemented in Simulink, Matlab object oriented code, and Python.
Classical Feedback Control with Nonlinear Multi-Loop Systems-Boris J. Lurie 2019-08-02 Classical Feedback Control with Nonlinear Multi-Loop Systems describes the design of high-performance feedback control systems, emphasizing the frequency-domain approach widely used in practical engineering. It presents design methods for high-order nonlinear single- and multi-loop controllers with efficient analog and digital implementations. Bode integrals are employed to estimate the available system performance and to determine the ideal frequency responses that maximize the disturbance rejection and feedback bandwidth. Nonlinear dynamic compensators provide global stability and improve transient responses. This book serves as a unique text for an advanced course in control system engineering, and as a valuable reference for practicing engineers competing in today's industrial environment.
Multivariable Feedback Control-Sigurd Skogestad 1996 Numerous worked examples, exercises and case studies, which make frequent use of MATLAB, are included. MATLAB files for examples and figures, solutions to selected exercises, extra problems and linear state-space models for the case studies are available on the Internet.
Schaum's Outline of Theory and Problems of Feedback and Control Systems-Joseph J. DiStefano 1967 Control systems terminology. Linear systems and differential equations. The laplace transform. Stability. Transfer functions. Block diagram algebra and transfer functions of systems. Signal flow graphs. System classification, error constants, and sensitivity. The analysis and design of feedback control systems: objectives and methods. Nyquist analysis. Nyquist design. Root-locus analysis. Root-locus design. Bode analysis. Bode design. Nichols chart analysis. Nichols chart design. Advanced topics.
Control System Design-Stanley M. Shinners 1964
Digital Control Engineering-M. Sami Fadali 2012 Digital controllers are part of nearly all modern personal, industrial, and transportation systems. Every senior or graduate student of electrical, chemical or mechanical engineering should therefore be familiar with the basic theory of digital controllers. This new text covers the fundamental principles and applications of digital control engineering, with emphasis on engineering design. Fadali and Visioli cover analysis and design of digitally controlled systems and describe applications of digital controls in a wide range of fields. With worked examples and Matlab applications in every chapter and many end-of-chapter assignments, this text provides both theory and practice for those coming to digital control engineering for the first time, whether as a student or practicing engineer. Extensive Use of computational tools: Matlab sections at end of each chapter show how to implement concepts from the chapter Frees the student from the drudgery of mundane calculations and allows him to consider more subtle aspects of control system analysis and design An engineering approach to digital controls: emphasis throughout the book is on design of control systems. Mathematics is used to help explain concepts, but throughout the text discussion is tied to design and implementation. For example coverage of analog controls in chapter 5 is not simply a review, but is used to show how analog control systems map to digital control systems Review of Background Material: contains review material to aid understanding of digital control analysis and design. Examples include discussion of discrete-time systems in time domain and frequency domain (reviewed from linear systems course) and root locus design in s-domain and z-domain (reviewed from feedback control course) Inclusion of Advanced Topics In addition to the basic topics required for a one semester senior/graduate class, the text includes some advanced material to make it suitable for an introductory graduate level class or for two quarters at the senior/graduate level. Examples of optional topics are state-space methods, which may receive brief coverage in a one semester course, and nonlinear discrete-time systems Minimal Mathematics Prerequisites The mathematics background required for understanding most of the book is based on what can be reasonably expected from the average electrical, chemical or mechanical engineering senior. This background includes three semesters of calculus, differential equations and basic linear algebra. Some texts on digital control require more
Feedback Control, Theory and Design-Konstanty Jan Kurman 1984 Good,No Highlights,No Markup,all pages are intact, Slight Shelfwear,may have the corners slightly dented, may have slight color changes/slightly damaged spine.
Feedback Control of Dynamic Systems-Gene F. Franklin 2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For senior-level or first-year graduate-level courses in control analysis and design, and related courses within engineering, science, and management. Feedback Control of Dynamic Systems, Sixth Edition is perfect for practicing control engineers who wish to maintain their skills. This revision of a top-selling textbook on feedback control with the associated web site, FPE6e.com, provides greater instructor flexibility and student readability. Chapter 4 on A First Analysis of Feedback has been substantially rewritten to present the material in a more logical and effective manner. A new case study on biological control introduces an important new area to the students, and each chapter now includes a historical perspective to illustrate the origins of the field. As in earlier editions, the book has been updated so that solutions are based on the latest versions of MATLAB and SIMULINK. Finally, some of the more exotic topics have been moved to the web site.
Feedback Control Problems-Dean K. Frederick 1995 This short book contains a large number of MATLAB-based problems dealing with the topics covered in a first course on feedback control. The ways in which MATLAB can be used to solve these problems are illustrated by detailed examples that lead the reader through the analytical steps of the solution and in many cases give a script of MATLAB commands. A number of simplified models of real-world systems are presented and used in the problems and what- if variations. This book is intended to serve as a supplement to one of the many feedback control textbooks available.
Control Systems Design of Bio-Robotics and Bio-Mechatronics with Advanced Applications-Ahmad Taher Azar 2019-11-30 Control Systems Design of Bio-Robotics and Bio-Mechatronics with Advanced Applications delivers essential and advanced bioengineering information on the application of control and robotics technologies in the life sciences. Judging by what we have witnessed so far, this exciting field of control systems and robotics in bioengineering is likely to produce revolutionary breakthroughs over the next decade. While this book is intended for senior undergraduate or graduate students in both control engineering and biomedical engineering programs, it will also appeal to medical researchers and practitioners who want to enhance their quantitative understanding of physiological processes. Focuses on the engineering and scientific principles underlying the extraordinary performance of biomedical robotics and bio-mechatronics Demonstrates the application of principles for designing corresponding algorithms Presents the latest innovative approaches to medical diagnostics and procedures, as well as clinical rehabilitation from the point-of-view of dynamic modeling, system analysis and control
Computer-Aided Control Systems Design-Cheng Siong Chin 2017-12-19 Computer-Aided Control Systems Design: Practical Applications Using MATLAB® and Simulink® supplies a solid foundation in applied control to help you bridge the gap between control theory and its real-world applications. Working from basic principles, the book delves into control systems design through the practical examples of the ALSTOM gasifier system in power stations and underwater robotic vehicles in the marine industry. It also shows how powerful software such as MATLAB® and Simulink® can aid in control systems design. Make Control Engineering Come Alive with Computer-Aided Software Emphasizing key aspects of the design process, the book covers the dynamic modeling, control structure design, controller design, implementation, and testing of control systems. It begins with the essential ideas of applied control engineering and a hands-on introduction to MATLAB and Simulink. It then discusses the analysis, model order reduction, and controller design for a power plant and the modeling, simulation, and control of a remotely operated vehicle (ROV) for pipeline tracking. The author explains how to obtain the ROV model and verify it by using computational fluid dynamic software before designing and implementing the control system. In addition, the book details the nonlinear subsystem modeling and linearization of the ROV at vertical plane equilibrium points. Throughout, the author delineates areas for further study. Appendices provide additional information on various simulation models and their results. Learn How to Perform Simulations on Real Industry Systems A step-by-step guide to computer-aided applied control design, this book supplies the knowledge to help you deal with control problems in industry. It is a valuable reference for anyone who wants a better understanding of the theory and practice of basic control systems design, analysis, and implementation.
Introduction to Feedback Control-Kirsten A. Morris 2001 This survey of input/output controller design is aimed at a mathematical audience. The text provides a rigorous introduction to input/output controller design for linear systems.
Feedback Control Systems-Charles L. Phillips 2011 Feedback Control Systems, 5/e This text offers a thorough analysis of the principles of classical and modern feedback control. Organizing topic coverage into three sections--linear analog control systems, linear digital control systems, and nonlinear analog control systems--helps students understand the difference between mathematical models and the physical systems that the models represent.
Linear Controller Design-Stephen P. Boyd 1991
Linear and Nonlinear Multivariable Feedback Control-Oleg Gasparyan 2008-03-03 "Linear and Nonlinear Multivariable Feedback Control presents a highly original, unified control theory of both linear and nonlinear multivariable (also known as multi-input multi-output (MIMO)) feedback systems as a straightforward extension of classical control theory. It shows how the classical engineering methods look in the multidimensional case and how practising engineers or researchers can apply them to the analysis and design of linear and nonlinear MIMO systems."--BOOK JACKET.

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