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Control of Discrete-Time Descriptor Systems takes an anisotropy-based approach to the explanation of random input disturbance with an information-theoretic representation. It describes the random input signal more precisely,

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and the anisotropic norm minimization included in the book enables readers to tune their controllers better through the mathematical methods provided. The book contains numerous examples of practical applications of

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descriptor systems in various fields, from robotics to economics, and presents an information-theoretic approach to the mathematical description of coloured noise. Anisotropy-based analysis and design for descriptor systems is

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supplied along with proofs of basic statements, which help readers to understand the algorithms proposed, and to undertake their own numerical simulations. This book serves as a source of ideas for academic researchers and

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postgraduate students working in the control of discrete-time systems. The control design procedures outlined are numerically effective and easily implementable in MATLAB®
Hardbound. This volume provides a state-of-the-art review of the

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development and future use of man-machine systems in all aspects of business and industry. The papers cover such topics as human-computer interaction, system design, and the impact of automation in general, and also by the use of case

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studies describe a wide range of applications in such areas as office automation, transportation, power plants, machinery and manufacturing processes and defence systems. Contains 73 papers. Singular systems which are also

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referred to as descriptor systems, semi-state systems, differential-algebraic systems or generalized state-space systems have attracted much attention because of their extensive applications in the Leontief dynamic model, electrical and

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mechanical models, etc. This monograph presented up-to-date research developments and references on stability analysis and design of nonlinear singular systems. It investigated the problems of practical stability, strongly absolute

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stability, input-state stability and observer design for nonlinear singular systems and the problems of absolute stability and multi-objective control for nonlinear singularly perturbed systems by using Lyapunov stability theory,

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comparison principle, S-procedure and linear matrix inequality (LMI), etc. Practical stability, being quite different from stability in the sense of Lyapunov, is a significant performance specification from an engineering point of view. The basic

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concepts and results on practical stability for standard state-space systems were generalized to singular systems. For Lur'e type descriptor systems (LDS) which were the feedback interconnection of a descriptor system with a static

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nonlinearity, strongly absolute stability was defined and Circle criterion and Popov criterion were derived. The notion of input-state stability (ISS) for nonlinear singular systems was defined based on the concept of ISS for standard state-

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space systems and the characteristics of singular systems. LMI-based sufficient conditions for ISS of Lur'e singular systems were proposed. Furthermore, observer design for nonlinear singular systems was studied and some observer design

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methods were proposed by the obtained stability results and convex optimization algorithms. Finally, absolute stability and multi-objective control of nonlinear singularly perturbed systems were considered. By Lyapunov functions, absolute

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stability criteria of Lur'e singularly perturbed systems were proposed and multi-objective control of T-S fuzzy singularly perturbed systems was achieved. Compared with the existing results, the obtained methods do not depend on the

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decomposition of the original system and can produce a determinate upper bound for the singular perturbation parameter.

Proceeding of the First Annual Conference on Computer-Aided Developments in Electronics and

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Communication (CADEC-2019),
Vellore Institute of Technology,
Amaravati, India, 2-3 March 2019
Information Spaces
Testing in the Professions
Design and Optimization in Organic
Synthesis

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12th European Conference on
Computer Vision, Florence, Italy,
October 7-13, 2012. Proceedings,
Part IV

Tutorials in Chemoinformatics

This is the first fundamental text to
focus specifically on forensic

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vocational rehabilitation, a field that is forecast to grow rapidly. Forensic vocational rehabilitation consultants evaluate the vocational and rehabilitation needs of individuals in an array of legal settings such as civil litigation, workers' compensation,

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Social Security disability, and others. The text is unique in its exploration of the vocational rehabilitation process from a biopsychosocial perspective that views disability as a complex and multidimensional construct. The book comprehensively describes the

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parameters and theoretical issues of relevance in evaluating and developing opinions in forensically oriented matters. It culls and synthesizes current peer-reviewed literature and research on this private subspecialty practice area of rehabilitation counseling,

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including theories, models, methods, procedures, and fundamental tenets of the field. Also included is current information about the labor market, life care planning, and professional identity, standards, and ethics. The text is designed for graduate and postgraduate

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students in rehabilitation counseling and psychology as well as practicing forensic vocational rehabilitation consultants and professionals moving toward practice in this arena. Chapters are authored by noted scholars or published practitioners in each subject

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area, and include an introduction to the content area, discussion of key terminology and concepts, and a review of the current and historical literature, with emphasis toward future research needs and evidence-based practice. The book fulfills the requirement by the

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Commission on Rehabilitation
Education (CORE) for training in this
subject area at the graduate level for
new certification or certification
maintenance. Key Features: Comprises
the only foundational text to focus
specifically on forensic vocational

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rehabilitation Synthesizes peer-reviewed research into one authoritative source Describes the role, function, and scope of practice of the rehabilitation counselor in private forensic vocational rehabilitation practice Fulfills CORE requirements for certification

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Although LMI has emerged as a powerful tool with applications across the major domains of systems and control, there has been a need for a textbook that provides an accessible introduction to LMIs in control systems analysis and design. Filling this need,

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LMIs in Control Systems: Analysis,
Design and Applications focuses on the
basic analysis and d

Qualitative and Mixed Methods Data
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experienced researchers with a guided introduction to dealing with the methodological complexity of mixed methods and qualitative inquiry using Dedoose® software. The authors use their depth of experience designing and updating Dedoose® as well as their

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published research to give the reader practical strategies for using Dedoose® from a wide range of research studies. Case study contributions by outside researchers provide readers with rich examples of how to use Dedoose® in practical, applied social science and

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health settings.

Computer Vision – ECCV 2012

Progress in Differential-Algebraic
Equations

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Statistical Modelling of Molecular
Descriptors in QSAR/QSPR

4th-7th eds. contain a special
chapter on The role and function of
the thesaurus in education, by
Frederick Goodman.

This is the first general textbook on

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experimental design and optimization in organic synthesis. The book presents a unified methodology for carrying out systematic studies when the objective is to develop efficient and optimum synthetic methods.

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Strategies are included both for exploring the experimental conditions and for systematic studies of entire reaction systems (substrates, reagent(s) and solvents). The methodology is based on multivariate statistical

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techniques. The following topics are treated in depth: classical two-level designs for screening experiments, gradient methods (steepest ascent, simplex methods) as well as response surface techniques for optimization, principal components

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analysis and PLS modelling. The book is intended as a hands-on text for chemists and engineers engaged in developing synthetic methods in industrial research, e.g. in fine chemicals and pharmaceuticals production, as well

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as for advanced undergraduate students, graduate students, and researchers in an academic environment.

A comprehensive treatment of model-based fuzzy controlsystems
This volume offers full coverage of

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the systematic framework for the stability and design of nonlinear fuzzy control systems. Building on the Takagi-Sugeno fuzzy model, authors Tanaka and Wang address a number of important issues in fuzzy control systems, including

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stability analysis, systematic design procedures, incorporation of performance specifications, numerical implementations, and practical applications. Issues that have not been fully treated in existing texts, such as stability

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analysis, systematic design, and performance analysis, are crucial to the validity and applicability of fuzzy control methodology. Fuzzy Control Systems Design and Analysis addresses these issues in the framework of parallel distributed

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compensation, a controller structure devised in accordance with the fuzzy model. This balanced treatment features an overview of fuzzy control, modeling, and stability analysis, as well as a section on the use of linear matrix inequalities

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(LMI) as an approach to fuzzy design and control. It also covers advanced topics in model-based fuzzy control systems, including modeling and control of chaotic systems. Later sections offer practical examples in the form of

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detailed theoretical and experimental studies of fuzzy control in robotics systems and a discussion of future directions in the field. Fuzzy Control Systems Design and Analysis offers an advanced treatment of fuzzy control

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that makes a useful reference for researchers and a reliable text for advanced graduate students in the field.

Unified Parametric Solutions
Volume 2
Blüte und Kern des

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guide, there were no books offering practical exercises in chemoinformatics methods. Tutorials in Chemoinformatics contains more than 100 exercises in 30 tutorials exploring key topics and methods in the field. It takes an applied approach

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to the subject with a strong emphasis on problem-solving and computational methodologies. Each tutorial is self-contained and contains exercises for students to work through using a variety of software packages. The majority of the tutorials are divided

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into three sections devoted to theoretical background, algorithm description and software applications, respectively, with the latter section providing step-by-step software instructions. Throughout, three types of software tools are used: in-house

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programs developed by the authors, open-source programs and commercial programs which are available for free or at a modest cost to academics. The in-house software and data sets are available on a dedicated companion website. Key topics and methods

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molecular descriptors, text strings and
binary fingerprints The design of*

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undergraduate and graduate courses in chemoinformatics, bioinformatics, computational chemistry, computational biology, medicinal chemistry and biochemistry. It is also a valuable working resource for medicinal chemists, academic

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*researchers and industrial chemists
looking to enhance their
chemoinformatics skills.*

*This book contains the proceedings of
the 8th Workshop on Coupled
Descriptor Systems held March 2013
in the Castle of Eringerfeld, Geseke in*

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*the neighborhood of Paderborn,
Germany. It examines the wide range
of current research topics in descriptor
systems, including mathematical
modeling, index analysis,
wellposedness of problems, stiffness
and different time-scales,*

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cosimulation and splitting methods and convergence analysis. In addition, the book also presents applications from the automotive and circuit industries that show that descriptor systems provide challenging problems from the point of view of both theory

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and practice. The book contains nine papers and is organized into three parts: control, simulation, and model order reduction. It will serve as an ideal resource for applied mathematicians and engineers, in particular those from mechanics and

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*electromagnetics, who work with
coupled differential equations.*

*Proceedings of the European Control
Conference 1993, Groningen,*

Netherlands, June 28 – July 1, 1993

*Development of a Novel Descriptor
Targeted to High-throughput Analysis*

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*in Lead Exploration and
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***Control, Optimization and Automation
Selected Papers from the Third
IFAC/IFIP/IEA/IFORS Conference,
Oulu, Finland, 14-16 June 1988***

*This monograph is an up-to-date
presentation of the analysis and design
of singular Markovian jump systems*

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(SMJSs) in which the transition rate matrix of the underlying systems is generally uncertain, partially unknown and designed. The problems addressed include stability, stabilization, H^2 control and filtering, observer design, and adaptive control. applications of

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Markov process are investigated by using Lyapunov theory, linear matrix inequalities (LMIs), S-procedure and the stochastic Barbalat's Lemma, among other techniques. Features of the book include: · study of the stability problem for SMJSs with general

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*transition rate matrices (TRMs); ·
stabilization for SMJSs by TRM design,
noise control, proportional-derivative
and partially mode-dependent control,
in terms of LMIs with and without
equation constraints; · mode-dependent
and mode-independent H^2 control*

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*solutions with development of a type of
disordered controller; · observer-based
controllers of SMJSs in which both the
designed observer and controller are
either mode-dependent or mode-
independent; · consideration of robust
H_∞ filtering in terms of uncertain TRM*

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*or filter parameters leading to a
method for totally mode-independent
filtering · development of LMI-based
conditions for a class of adaptive state
feedback controllers with almost-
certainly-bounded estimated error and
almost-certainly-asymptotically-stable*

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*corresponding closed-loop system
states · applications of Markov process
on singular systems with norm bounded
uncertainties and time-varying delays
Analysis and Design of Singular
Markovian Jump Systems contains
valuable reference material for*

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academic researchers wishing to explore the area. The contents are also suitable for a one-semester graduate course.

Video Research in the Learning Sciences is a comprehensive exploration of key theoretical,

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methodological, and technological advances concerning uses of digital video-as-data in the learning sciences as a way of knowing about learning, teaching, and educational processes. The aim of the contributors, a community of scholars using video in

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their own work, is to help usher in video scholarship and supportive technologies, and to mentor video scholars, so that video research will meet its maximum potential to contribute to the growing knowledge base about teaching and learning. This

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volume contributes deeply to both to the science of learning through in-depth video studies of human interaction in learning environments—whether classrooms or other contexts—and to the uses of video for creating descriptive, explanatory,

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or expository accounts of learning and teaching. It is designed around four themes—each with a cornerstone chapter that introduces and synthesizes the cluster of chapters related to it: Theoretical frameworks for video research; Video research on peer,

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family, and informal learning; Video research on classroom and teacher learning; and Video collaboratories and technological futures. Video Research in the Learning Sciences is intended for researchers, university faculty, teacher educators, and

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*graduate students in education, and for anyone interested in how knowledge is expanded using video-based technologies for inquiries about learning and teaching. Visit the Web site affiliated with this book:
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Optimization methodologies are fundamental instruments to tackle the complexity of today's engineering processes. Engineering Optimization 2014 is dedicated to optimization methods in engineering, and contains the papers presented at the 4th

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*International Conference on
Engineering Optimization
(ENGOPT2014, Lisbon, Portugal, 8-11
September 2014). The book will be of
interest to engineers, applied
mathematicians, and computer
scientists working on research,*

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*development and practical applications
of optimization methods in engineering.*

A Linear Matrix Inequality Approach

The Architecture of Cyberspace

gesammelt zur häuslichen Erbauung

On Derivative and Proportional

Feedback Design for Descriptor

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*Smith and Williams' Introduction to the
Principles of Drug Design and Action
EPA-430/1*

*Organizes major concepts,
theories, methodologies,
trends, challenges and*

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applications of data mining (DM) and knowledge discovery in databases (KDD). This book provides algorithmic descriptions of classic methods, and also suitable for professionals in fields such as computing

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applications, information systems management, and more.

This book presents theoretical and practical findings on the state estimation, diagnosis and control of complex systems,

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*especially in the
mathematical form of
descriptor systems. The
research is fully motivated
by real-world applications
(i.e., Barcelona's water
distribution network), which
require control systems*

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capable of taking into account their specific features and the limits of operations in the presence of uncertainties stemming from modeling errors and component malfunctions. Accordingly, the book first

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introduces a complete set-based framework for explicitly describing the effects of uncertainties in the descriptor systems discussed. In turn, this set-based framework is used for state estimation and

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diagnosis. The book also presents a number of application results on economic model predictive control from actual water distribution networks and smart grids. Moreover, the book introduces a fault-

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*tolerant control strategy
based on virtual actuators
and sensors for such systems
in the descriptor form.*

*A practical guide on how to
structure information for
the Web for students and
practitioners.*

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*Analysis and Design of
Descriptor Linear Systems
Foundations of Forensic
Vocational Rehabilitation
Analysis, Design and
Applications
LMI Approach to Positive
Real Analysis and Design for*

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Descriptor Systems

An Anisotropy-Based Approach

Thesaurus of ERIC

Descriptors

This volume contains the
proceedings of the KKA 2017 –
the 19th Polish Control

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Conference, organized by the
Department of Automatics and
Biomedical Engineering, AGH
University of Science and
Technology in Kraków, Poland
on June 18–21, 2017, under the
auspices of the Committee on

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Automatic Control and Robotics
of the Polish Academy of
Sciences, and the Commission
for Engineering Sciences of the
Polish Academy of Arts and
Sciences. Part 1 deals with
general issues of modeling and

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control, notably flow modeling and control, sliding mode, predictive, dual, etc. control. In turn, Part 2 focuses on optimization, estimation and prediction for control. Part 3 is concerned with autonomous

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vehicles, while Part 4 addresses applications. Part 5 discusses computer methods in control, and Part 6 examines fractional order calculus in the modeling and control of dynamic systems. Part 7 focuses on modern

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robotics. Part 8 deals with modeling and identification, while Part 9 deals with problems related to security, fault detection and diagnostics. Part 10 explores intelligent systems in automatic control, and Part 11

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discusses the use of control tools and techniques in biomedical engineering. Lastly, Part 12 considers engineering education and teaching with regard to automatic control and robotics. The first print edition in more

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than 5 years contains a total of 10,773 vocabulary terms with 206 descriptors and 210 "use" references that are new to this thesaurus for locating precise terms from the controlled vocabulary used to index the

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ERIC database.

Provides One Unified Formula
That Gives Solutions to Several
Types of GSEs Generalized
Sylvester equations (GSEs) are
applied in many fields, including
applied mathematics, systems

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and control, and signal processing. Generalized Sylvester Equations: Unified Parametric Solutions presents a unified parametric approach for solving various types of GSEs. In an extremely neat and elegant

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matrix form, the book provides a single unified parametric solution formula for all the types of GSEs, which further reduces to a specific clear vector form when the parameter matrix F in the equations is a Jordan matrix.

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Particularly, when the parameter matrix F is diagonal, the reduced vector form becomes extremely simple. The first chapter introduces several types of GSEs and gives a brief overview of solutions to GSEs. The two

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subsequent chapters then show the importance of GSEs using four typical control design applications and discuss the F ?coprimeness of a pair of polynomial matrices. The next several chapters deal with

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parametric solutions to GSEs. The final two chapters present analytical solutions to normal Sylvester equations (NSEs), including the well-known continuous- and discrete-time Lyapunov equations. An

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appendix provides the proofs of some theorems. The book can be used as a reference for graduate and senior undergraduate courses in applied mathematics and control systems analysis and design. It

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will also be useful to readers interested in research and applications based on Sylvester equations.

LMI in Control Systems

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Control and Computers

A Practical Approach for

Research Across the Social
Sciences

Deskriptor 2013

Analysis and Design of Singular
Markovian Jump Systems

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This handbook and ready reference presents a combination of statistical, information-theoretic, and data analysis methods to meet the challenge of

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designing empirical
models involving
molecular descriptors
within bioinformatics.
The topics range from
investigating
information processing

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in chemical and
biological networks to
studying statistical and
information-theoretic
techniques for analyzing
chemical structures to
employing data analysis

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and machine learning techniques for QSAR/QSPR. The high-profile international author and editor team ensures excellent coverage of the topic,

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making this a must-have for everyone working in chemoinformatics and structure-oriented drug design.

Advances in knowledge and technology have

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revolutionized the process of drug development, making it possible to design drugs for a given target or disease. Building on the foundation laid by the

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previous three editions,
Smith and Williams
Introduction to the
Principles of Drug
Design and Action,
Fourth Edition includes
the latest informatio

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Testing in the Professions focuses on current practices in credentialing testing as a guide for practitioners. With a broad focus on the key

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components, issues, and concerns surrounding the test development and validation process, this book brings together a wide range of research and theory—from design

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and analysis of tests to security, scoring, and reporting. Written by leading experts in the field of measurement and assessment, each chapter includes authentic

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examples as to how various practices are implemented or current issues observed in credentialing programs. The volume begins with an exploration of the

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various types of
credentialing programs
as well as key
differences in the
interpretation and
evaluation of test
scores. The next set of

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chapters discusses key
test development steps,
including test design,
content development,
analysis, and
evaluation. The final
set of chapters

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addresses specific topics that span the testing process, including communication with stakeholders, security, program evaluation, and legal

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principles. As a response to the growing number of professions and professional designations that are tied to testing requirements, Testing in

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the Professions is a comprehensive source for up-to-date measurement and credentialing practices.

Stability Analysis and
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2014

Proceedings of KKA

2017—The 19th Polish

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Kraków, Poland, June

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18-21, 2017**

Analysis, Design, and
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machine Systems 1988
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and Control of Complex

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Dynamic Analysis and
Design of Engineering
Curricula-

***Descriptor linear systems
theory is an important
part in the general field***

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of control systems theory, and has attracted much attention in the last two decades. In spite of the fact that descriptor linear systems theory has been a topic very rich in content,

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there have been only a few books on this topic. This book provides a systematic introduction to the theory of continuous-time descriptor linear systems

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and aims to provide a relatively systematic introduction to the basic results in descriptor linear systems theory. The clear representation of materials and a large

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***number of examples make
this book easy to
understand by a large
audience. General readers
will find in this book a
comprehensive
introduction to the theory***

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of descriptive linear systems. Researchers will find a comprehensive description of the most recent results in this theory and students will find a good introduction

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problems in linear
systems theory.***

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October 2012. The 408 revised papers presented were carefully reviewed and selected from 1437 submissions. The papers are organized in topical sections on geometry, 2D

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***and 3D shape, 3D
reconstruction, visual
recognition and
classification, visual
features and image
matching, visual
monitoring: action and***

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***activities, models,
optimisation, learning,
visual tracking and image
registration, photometry:
lighting and colour, and
image segmentation.***

Fuzzy Control Systems

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Amaravati, India. The book
contains computer simulated
results in various areas of
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communication engineering***

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such as, VLSI and embedded systems, wireless communication, signal processing, power electronics and control theory applications. This volume will help researchers and

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Linear Systems

***engineers to develop and
extend their ideas in upcoming
research in electronics and
communication.***