1. Record Nr. UNINA9910454726503321

Autore	Bhatia Rajendra <1952->
Titolo	Positive definite matrices [[electronic resource] /] / Rajendra Bhatia
Pubbl/distr/stampa	Princeton, N.J., : Princeton University Press, c2007
ISBN	1-282-12974-0 9786612129742 1-4008-2778-7
Edizione	[Course Book]
Descrizione fisica	1 online resource (265 p.)
Collana	Princeton series in applied mathematics
Classificazione	SK 220
Disciplina	512.9/434
Soggetti	Matrices Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [237]-245) and index.
Nota di contenuto	Frontmatter -- Contents -- Preface -- Chapter One. Positive Matrices -- Chapter Two. Positive Linear Maps -- Chapter Three. Completely Positive Maps -- Chapter Four. Matrix Means -- Chapter Five. Positive Definite Functions -- Chapter Six. Geometry of Positive Matrices -- Bibliography -- Index -- Notation
Sommario/riassunto	This book represents the first synthesis of the considerable body of new research into positive definite matrices. These matrices play the same role in noncommutative analysis as positive real numbers do in classical analysis. They have theoretical and computational uses across a broad spectrum of disciplines, including calculus, electrical engineering, statistics, physics, numerical analysis, quantum information theory, and geometry. Through detailed explanations and an authoritative and inspiring writing style, Rajendra Bhatia carefully develops general techniques that have wide applications in the study of such matrices. Bhatia introduces several key topics in functional analysis, operator theory, harmonic analysis, and differential geometry--all built around the central theme of positive definite matrices. He discusses positive and completely positive linear maps, and presents major theorems with simple and direct proofs. He examines matrix means and their applications, and shows how to use positive definite functions to derive operator inequalities that he and

	others proved in recent years. He guides the reader through the differential geometry of the manifold of positive definite matrices, and explains recent work on the geometric mean of several matrices. Positive Definite Matrices is an informative and useful reference book for mathematicians and other researchers and practitioners. The numerous exercises and notes at the end of each chapter also make it the ideal textbook for graduate-level courses.

2.

Record Nr.	UNINA9910453684203321
Autore	Ortiz John M
Titolo	The myriad gifts of Asperger's syndrome [[electronic resource] /] / John M. Ortiz
Pubbl/distr/stampa	London ; ; Philadelphia, : Jessica Kingsley Publishers, 2008
ISBN	1-281-78207-6 9786611782078 1-84642-778-9
Edizione	[[New ed.].]
Descrizione fisica	1 online resource (178 p.)
Disciplina	616.85/8832
Soggetti	Asperger's syndrome Asperger's syndrome - Patients Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references. Includes Web resources.
Nota di contenuto	The Myriad Gifts of ASPERGER'S SYNDROME; Contents; The Asperger Dimension; CHAPTER 1: Introduction; CHAPTER 2: The Gifts of Asperger's Syndrome; CHAPTER 3: The World of Gainful Employment; CHAPTER 4: Notable Persons with Asperger's Syndrome Phenotpyes; APPENDIX: Data Collection Forms; RECOMMENDED BOOKS WRITTEN BY AUTHORS WITH AUTISM OR ASPERGER'S SYNDROME; RECOMMENDED INTERNET SITES WORTH SIGHTING AND CITING; REFERENCES; back cover;
Sommario/riassunto	This book is refreshingly positive in a world of negative stereotypes.

	Through short, real-life stories, Dr. Ortiz shows people with the neurodiversity of AS making important contributions to their communities. He does a great job of focusing on the positive aspects of what can be a very debilitating condition.". - Yvona Fast, author of Employment for Individuals with Asperger Syndrome or Non-Verbal Learning Disability: Stories and Strategies. " The Myriad Gifts of Asperger's Syndrome is a fabulous read. John Ortiz is a wonderful storyteller and this reads like a series of captivatin

3. Record Nr. UNISA996216943503316

Titolo	Analysis and control of linear systems [[electronic resource] /] / edited by Philippe de Larminat
Pubbl/distr/stampa	London ; ; Newport Beach, CA, : ISTE, 2007
ISBN	1-280-84770-0 9786610847709 0-470-61252-5 0-470-39466-8 1-84704-585-5
Descrizione fisica	1 online resource (561 p.)
Collana	Control systems, robotics and manufacturing series
Altri autori (Persone)	LarminatPhilippe de
Disciplina	629.8/32 629.832
Soggetti	Linear control systems Automatic control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Analysis and Control of Linear Systems; Table of Contents; Preface; Part 1. System Analysis; Chapter 1. Transfer Functions and Spectral Models; 1.1. System representation; 1.2. Signal models; 1.2.1. Unit-step function or Heaviside step function U(t); 1.2.2. Impulse; 1.2.3. Sine-wave signal; 1.3. Characteristics of continuous systems; 1.4. Modeling of linear time-invariant systems; 1.4.1. Temporal model, convolution, impulse response and unit-step response; 1.4.2. Causality; 1.4.3. Unit-

step response; 1.4.4. Stability; 1.4.5. Transfer function; 1.4.6. Causality, stability and transfer function
1.4.7. Frequency response and harmonic analysis1.5. Main models; 1.5.1. Integrator; 1.5.2. First order system; 1.5.3. Second order system; 1.6. A few reminders on Fourier and Laplace transforms; 1.6.1. Fourier transform; 1.6.2. Laplace transform; 1.6.3. Properties; 1.6.4. Laplace transforms of ordinary causal signals; 1.6.5. Ordinary Fourier transforms; 1.7. Bibliography; Chapter 2. State Space Representation; 2.1. Reminders on the systems; 2.1.1. Internal representation of determinist systems: the concept of state; 2.1.2. Equations of state and equations of measurement for continuous systems
2.1.3. Case of linear systems2.1.4. Case of continuous and invariant linear systems; 2.2. Resolving the equation of state; 2.2.1. Free state; 2.2.2. Forced state; 2.2.3. Particular case of linear and invariant systems; 2.2.4. Calculation method of the transition matrix eA(t-t 0); 2.2.5. Application to the modeling of linear discrete systems; 2.3. Scalar representation of linear and invariant systems; 2.3.1. State passage - transfer; 2.3.2. Change of basis in the state space; 2.3.3. Transfer passage - state; 2.3.4. Scalar representation of invariant and linear discrete systems
2.4. Controllability of systems2.4.1. General definitions; 2.4.2. Controllability of linear and invariant systems; 2.4.3. Canonic representation of partially controllable systems; 2.4.4. Scalar representation of partially controllable systems; 2.5. Observability of systems; 2.5.1. General definitions; 2.5.2. Observability of linear and invariant systems; 2.5.3. Case of partially observable systems; 2.5.4. Case of partially controllable and partially observable systems; 2.6. Bibliography; Chapter 3. Discrete-Time Systems; 3.1. Introduction; 3.2. Discrete signals: analysis and manipulation
3.2.1. Representation of a discrete signal3.2.2. Delay and lead operators; 3.2.3. z-transform; 3.3. Discrete systems (DLTI); 3.3.1. External representation; 3.3.2. Internal representation; 3.3.3. Representation in terms of operator; 3.3.4. Transfer function and frequency response; 3.3.5. Time response of basic systems; 3.4. Discretization of continuous-time systems; 3.4.1. Discretization of analog signals; 3.4.2. Transfer function of the discretized system; 3.4.3. State representation of the discretized system; 3.4.4. Frequency responses of the continuous and discrete system
3.4.5. The problem of sub-sampling

Sommario/riassunto

Automation of linear systems is a fundamental and essential theory. This book deals with the theory of continuous-state automated systems.