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Autore	Liu Yanpei
Titolo	Algebraic elements of graphs / / Yanpei Liu
Pubbl/distr/stampa	Berlin, [Germany] ; ; Boston, [Massachusetts] : , : De Gruyter, , 2017 ©2017
ISBN	3-11-048075-1 3-11-048184-7
Descrizione fisica	1 online resource (410 pages) : illustrations
Altri autori (Persone)	University of Science and Technology China Press
Disciplina	511.5
Soggetti	Representations of graphs Representations of algebras Associative algebras
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Frontmatter -- Preface (DG Edition) -- Preface (USTC Edition) -- Contents -- 1. Abstract Graphs -- 2. Abstract Maps -- 3. Duality -- 4. Orientability -- 5. Orientable Maps -- 6. Nonorientable Maps -- 7. Isomorphisms of Maps -- 8. Asymmetrization -- 9. Asymmetrized Petal Bundles -- 10. Asymmetrized Maps -- 11. Maps within Symmetry -- 12. Genus Polynomials -- 13. Census with Partitions -- 14. Equations with Partitions -- 15. Upper Maps of a Graph -- 16. Genera of a Graph -- 17. Isogemial Graphs -- 18. Surface Embeddability -- Appendix 1: Concepts of Polyhedra, Surfaces, Embeddings and Maps -- Appendix 2: Table of Genus Polynomials for Embeddings and Maps of Small Size -- Appendix 3: Atlas of Rooted and Unrooted Maps for Small Graphs -- Bibliography -- Author Index -- Subject Index
Sommario/riassunto	This book studies algebraic representations of graphs in order to investigate combinatorial structures via local symmetries. Topological, combinatorial and algebraic classifications are distinguished by invariants of polynomial type and algorithms are designed to determine all such classifications with complexity analysis. Being a summary of the author's original work on graph embeddings, this book is an essential reference for researchers in graph theory. ContentsAbstract GraphsAbstract MapsDualityOrientabilityOrientable MapsNonorientable

	MapsIsomorphisms of MapsAsymmetrizationAsymmetrized Petal BundlesAsymmetrized MapsMaps within SymmetryGenus PolynomialsCensus with PartitionsEquations with PartitionsUpper Maps of a GraphGenera of a GraphIsogemial GraphsSurface Embeddability

2. Record Nr. UNINA9910815424403321

Titolo	Adaptive systems in control and signal processing 1983 : proceedings of the IFAC workshop, San Franciso, USA, 20-22 June, 1983 / / edited by I.D. Landau, M. Tomizuka and D.M. Auslander
Pubbl/distr/stampa	Oxford [Oxfordshire] ; ; New York : , : Published for the International Federation of Automatic Control by Pergamon Press, , [1984] ©1984
ISBN	1-4831-9065-X
Edizione	[First edition.]
Descrizione fisica	1 online resource (1668 p.)
Collana	IFAC proceedings series
Disciplina	629.836
Soggetti	Adaptive control systems Adaptive signal processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Organized by Continuing Education in Engineering, University of California, Berkeley; sponsored by the International Federation of Automatic Control (IFAC), Technical Committee on Theory, Working Group on Adaptive Systems; co-sponsored by American Automatic Control Council (AACC), Centre National de la Recherche Scientificque (CNRS-France)"--P. [v].
Nota di bibliografia	Includes bibliographies and index.
Nota di contenuto	Cover image; Title page; Table of Contents; IFAC Publications, Published and Forthcoming volumes; Copyright; IFAC WORKSHOP ON ADAPTIVE SYSTEMS IN CONTROL AND SIGNAL PROCESSING 1983; FOREWORD; PLENARY SESSION 1; Chapter 1: ADAPTIVE CONTROL OF A CLASS OF LINEAR TIME VARYING SYSTEMS; Abstract; 1 INTRODUCTION; 2 A NEW PERSISTENCY OF EXCITATION CONDITION; 3 CONVERGENCE OF A POLE ASSIGNMENT ALGORITHM IN THE TIME INVARIANT CASE; 4 JUMP PARAMETERS; 5 DRIFT PARAMETERS; 6 SIMULATION STUDIES; 7 CONCLUSIONS; Chapter 2: ADAPTIVE SIGNAL PROCESSING FOR

ADAPTIVE CONTROL; Abstract; INTRODUCTION
ADAPTIVE FILTERINGPLANT MODELING; PLANT INVERSE MODELING; INVERSE MODELING OF NONMINIMUM PHASE PLANTS; ADAPTIVE INVERSE CONTROL SCHEME; MODEL REFERENCE ADAPTIVE CONTROL SYSTEM; OFF-LINE MODEL REFERENCE INVERSE CONTROL; CONCLUSION; Chapter 3: ROBUSTNESS ISSUES IN ADAPTIVE CONTROL; Abstract; 1 INTRODUCTION; 2 GENERAL FRAMEWORK; 3 ADAPTIVE ERROR MODEL; 4 CONDITIONS FOR GLOBAL STABILITY; 5 CONDITIONS FOR LOCAL STABILITY; 6 CONCLUDING REMARES; Chapter 4: ROBUST REDESIGN OF ADAPTIVE CONTROL IN THE PRESENCE OF DISTURBANCES AND UNMODELED DYNAMICS; Abstract; Introduction
I A Scalar Adaptive Control ProblemConclusion; Acknowledgement;
Chapter 5: MODEL REFERENCE ADAPTIVE CONTROL OF MECHANICAL MANIPULATORS; Abstract; INTRODUCTION; MANIPULATOR MODEL; APPLICATION OF CONTINUOUS TIME MRAC; APPLICATION OF DISCRETE TIME MRAC; CONCLUSIONS; ACKNOWLEDGEMENT; ROBUSTNESS OF ADAPTIVE CONTROL ALGORITHMS 1; Chapter 6: DISTURBANCE CANCELLATION AND DRIFT OF ADAPTIVE GAINS; Abstract; 1 Introduction; 2 Drift of Controller Gains; 3 Simulation
Chapter 7: ON THE MODEL-PROCESS MISMATCH TOLERANCE OF VARIOUS PARAMETER ADAPTATION ALGORITHMS IN DIRECT CONTROL SCHEMES: A SECTORICITY APPROACHAbstract; INTRODUCTION; PARAMETER ADAPTATION ALGORITHMS: SECTOR PROPERTIES; CONCLUSIONS; APPENDIX; Acknowledgement; Chapter 8: A FREQUENCY DOMAIN ANALYSIS OF DIRECT ADAPTIVE POLE PLACEMENT ALGORITHMS IN THE PRESENCE OF UNMODELLED DYNAMICS; Abstract; I INTRODUCTION; II PROBLEM FORMULATION AND BACKGROUND; III FIXED CONTROL AND UNMODELLED DYNAMICS; VI IDENTIFICATION MODELS AND UNMODELLED DYNAMICS; V PARAMETER ESTIMATION AND UNMODELLED DYNAMICS
VI CONCLUDING REMARKSChapter 9: ANALYSIS OF ROBUSTNESS OF THE INEXACT MODEL MATCHING STRUCTURE TO REDUCED ORDER MODELLING; Abstract; I INTRODUCTION; II DESCRIPTION OF THE PROBLEM; III MATHEMATICAL DESCRIPTION OF THE SYSTEM; IV PROOF OF STABILITY; V CONCLUSIONS; Chapter 10: ROBUSTNESS OF INDIRECT ADAPTIVE CONTROL BASED ON POLE PLACEMENT DESIGN; Abstract; INTRODUCTION; ROBUSTNESS PROBLEM STATEMENT; ADAPTIVE CONTROL; CONCLUSION; APPENDIX; Chapter 11: AN ON-LINE METHOD FOR IMPROVEMENT OF THE ADAPTATION TRANSIENTS IN ADAPTIVE CONTROL; Abstract; INTRODUCTION; DERIVATION OF THE ES OPTIMIZATION OF THE ES AND CORRECTING ACTION THE c(.)-AP

Sommario/riassunto

Adaptive Systems in Control and Signal Processing 1983