

1. Record Nr.	UNINA9910820491503321
Titolo	Grobner bases in control theory and signal processing [[electronic resource] ] / edited by Hyungju Park, Georg Regensburger
Pubbl/distr/stampa	Berlin ; ; New York, : Walter de Gruyter, c2007
ISBN	3-11-090974-X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (260 p.)
Collana	Radon series on computational and applied mathematics ; ; 3
Classificazione	SD 2006
Altri autori (Persone)	ParkHyungju (Hyungju Alan) RegensburgerGeorg
Disciplina	512.2
Soggetti	Grobner bases Control theory Signal processing
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.
Nota di contenuto	Front matter -- Preface / Park, Hyungju / Regensburger, Georg -- Table of Contents -- Two decades (1985-2005) of Gröbner bases in multidimensional systems / Bose, N. K. -- Applications of the Quillen-Suslin theorem to multidimensional systems theory / Fabiaska, Anna / Quadrat, Alban -- Normal forms in statistical signal processing / Lebrun, Jerome -- Obstructions to genericity in study of parametric problems in control theory / Levandovskyy, Viktor / Zerz, Eva -- A survey of (BIBO) stability and (proper) stabilization of multidimensional input/output systems / Oberst, Ulrich / Scheicher, Martin -- Applications of filter coefficients and wavelets parametrized by moments / Regensburger, Georg -- Applications of Gröbner bases in synthesis of multidimensional control systems / Xu, Li -- State representations of time-varying linear systems / Zerz, Eva
Sommario/riassunto	This volume contains survey and original articles presenting the state of the art on the application of Grobner bases in control theory and signal processing. The contributions are based on talks delivered at the Special Semester on Grobner Bases and Related Methods at the Johann Radon Institute of Computational and Applied Mathematics (RICAM), Linz, Austria, in May 2006.

