

1. Record Nr.	UNISA996418260203316
Titolo	Algebraic and Symbolic Computation Methods in Dynamical Systems [[electronic resource] /] / edited by Alban Quadrat, Eva Zerz
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-38356-3
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (320 pages) : illustrations
Collana	Advances in Delays and Dynamics, , 2197-117X ; ; 9
Disciplina	512.56
Soggetti	System theory Vibration Dynamical systems Dynamics Calculus of variations Systems Theory, Control Vibration, Dynamical Systems, Control Calculus of Variations and Optimal Control; Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	State-Dependent Sampling for Online Control -- Design of First Order Controllers for Unstable Infinite Dimensional Plants -- Anti-Windup Conditioning for Actuator Saturation in Internal Model Control with Delays -- Stabilization of Some Fractional Neutral Delay Systems which Possibly Possess an Infinite Number of Unstable Poles -- Controller Design for a Class of Delayed and Constrained Systems: Application to Supply Chains.
Sommario/riassunto	This book aims at reviewing recent progress in the direction of algebraic and symbolic computation methods for functional systems, e. g. ODE systems, differential time-delay equations, difference equations and integro-differential equations. In the nineties, modern algebraic theories were introduced in mathematical systems theory and in control theory. Combined with real algebraic geometry, which was previously introduced in control theory, the past years have seen a flourishing development of algebraic methods in control theory. One of the

strengths of algebraic methods lies in their close connections to computations. The use of the above-mentioned algebraic theories in control theory has been an important source of motivation to develop effective versions of these theories (when possible). With the development of computer algebra and computer algebra systems, symbolic methods for control theory have been developed over the past years. The goal of this book is to propose a partial state of the art in this direction. To make recent results more easily accessible to a large audience, the chapters include materials which survey the main mathematical methods and results and which are illustrated with explicit examples.

2. Record Nr.	UNICAMPANIAVAN00268148
Autore	Thirring, Walter
Titolo	2: Classical Field Theory / Walter Thirring ; Translated by Evans M. Harrell
Pubbl/distr/stampa	New York, : Springer, 1978
Titolo uniforme	Lehrbuch der Mathematischen Physik. Band 2: Klassische Feldtheorie
Edizione	[2. ed]
Descrizione fisica	x, 261 p. : ill. ; 24 cm
Soggetti	53-XX - Differential geometry [MSC 2020] 53B50 - Applications of local differential geometry to the sciences [MSC 2020] 78-XX - Optics, electromagnetic theory [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia