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Algebraic Methods for Nonlinear Control Systems ...

Algebraic and Differential Methods for Nonlinear Control Theory: Elements of Commutative Algebra and Algebraic Geometry (Mathematical and Analytical Techniques with Applications to Engineering) [Rafael Martínez-Guerra, Oscar Martínez-Fuentes, Juan Javier Montesinos-García] on Amazon.com. *FREE* shipping on qualifying offers. This book is a short primer in engineering mathematics with a view ...

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ferential geometric methods provide a powerful frame work for solving several practical nonlinear control problems that are of compelling engineering interest such as model matching and...

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Lie algebraic method generalize matrix methods and algebraic rank conditions to smooth nonlinear systems. They capture the essence of noncommuting flows and give rise to noncommutative analogues of Taylor expansions. Lie algebraic rank conditions determine controllability, observability, and optimality.

Lie-algebraic methods in nonlinear control

Conte / Moog / Perdon, Algebraic Methods for Nonlinear Control Systems, 2006, Buch, 978-1-84628-594-3. Bücher schnell und portofrei

Algebraic Methods for Nonlinear Control Systems

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Common methods for the qualitative analysis of nonlinear ordinary differential equations include: Examination of any conserved quantities, especially in Hamiltonian systems Examination of dissipative quantities (see Lyapunov function) analogous to conserved quantities Linearization via Taylor expansion

Nonlinear system - Wikipedia

Provides an introduction to algebraic control for nonlinear systems. This book, divided into two parts, offers necessary methodology and applications to control problems. It presents an alternative linear-algebraic strategy based on the use of vector spaces over suitable fields of nonlinear functions.

Algebraic Methods for Nonlinear Control Systems. (eBook ...

The substitution method we used for linear systems is the same method we will use for nonlinear systems. We solve one equation for one variable and then substitute the result into the second equation to solve for another variable, and so on. There is, however, a variation in the possible outcomes. Intersection of a Parabola and a Line

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