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### **Nonlinear Control & Analytical Mechanics: a Computational**

Nonlinear control theory is concerned with the analysis and design of nonlinear control systems. It is closely related to nonlinear systems theory in general, which provides its basic analysis tools. Characteristics Numerous methods and approaches exist for the analysis and design of nonlinear control systems.

### **Nonlinear Control Systems - Technion**

towards the foundation of nonlinear control theory. In addition, his dedication to explain intricate issues and difficult concepts in a simple and rigorous way and to motivate young researchers has been instrumental to the intellectual growth of the nonlinear control community worldwide.

### **Analysis and Design of Nonlinear Control Systems : in**

Nonlinear Control and Analytical Mechanics: A Computational Approach, (Birkhäuser, Boston, USA). Nijmeijer H and van der Schaft AJ (1990). Nonlinear Dynamical Control Systems, (Springer, Berlin, Germany). Rabenack K (2005). Computation of high gain observers for nonlinear systems using automatic differentiation.

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Recently some semi-analytical methods have been introduced for solving a class of nonlinear optimal control problems such as the Adomian decomposition method, homotopy perturbation method and ...

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Analytical-numerical methods for investigation of hidden oscillations in nonlinear control systems Leonov G.A., Kuznetsov N.V. Draft 1 2 3 Abstract. The method of harmonic linearization, numerical methods, and the applied bifurcation theory together discover new opportunities for analysis of oscillations of control systems. In the present survey

### **Analytical-numerical methods for investigation of hidden**

Optimal tracking control of nonlinear dynamical systems ... by results from analytical dynamics and the close

connection between nonlinear control ... trajectory, nor do we assume any  $\tilde{\omega}$ -feedback structure<sup>TM</sup> to the nonlinear control effort. Furthermore, the optimality criterion used is the minimization of the ...

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