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Nonlinear Control And Analytical Mechanics

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During the past decade we have had to confront a series of control design problems - involving, primarily, multibody electro-mechanical systems - in which nonlinearity plays an essential role. Fortunately, the geometric theory of nonlinear control system analysis progressed substantially during the 1980s and 90s, providing crucial conceptual tools that addressed many of our needs.

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Nonlinear Control and Analytical Mechanics. Harry G. Kwatny and Gilmer L. Blankenship. Birkhäuser, 2000, Springer. The geometric theory of nonlinear control system analysis and design progressed substantially during the 1980s and 90s, providing crucial conceptual tools that addressed many of emerging applications - of specific interest to us, involving multibody electro-mechanical systems.

Nonlinear Control and Analytical Mechanics - Drexel University

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- HG Kwatny (Dept of Mech Eng and Mech, Drexel Univ, Philadelphia PA 19104) and GL Blankenship (Dept of Elec and Comput Eng, Univ of Maryland, College Park MD 20742). Birkhauser Boston, Cambridge MA. 2000. 317 pp. CD-ROM included. ISBN 0-8176-4147-5. \$59.95.

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A resource for mechanical and control engineers at all levels, from graduates to professionals and practitioners. This book highlights and utilizes the computational infrastructure common to both modern analytical mechanics and nonlinear control. An integrated approach gives a set of models and control design examples that are contemporary and practical.

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Ali Hasan Nayfeh (21 December 1933 - 27 March 2017) was a Palestinian-

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Jordanian mathematician, mechanical engineer and physicist. He is regarded as the most influential scholar and scientist in the area of applied nonlinear dynamics in mechanics and engineering. He was the inaugural winner of the Thomas K. Caughey Dynamics Award, and was awarded the Benjamin Franklin Medal in mechanical ...

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Nonlinear Control Theory - Information Technology

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