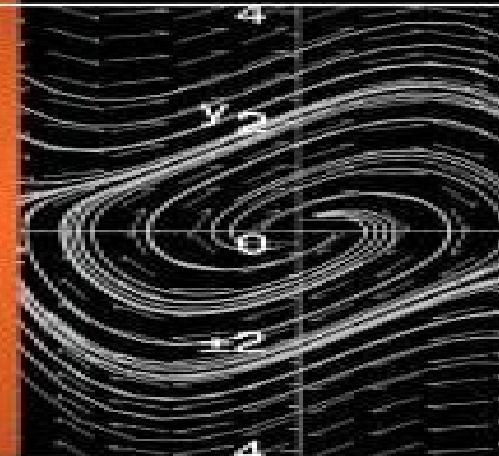


NONLINEAR CONTROL SYSTEMS

Analysis and Design

Horacio J. Marquez



Analysis And Design Of Nonlinear Control Systems

Alessandro Astolfi, Lorenzo Marconi



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differential geometry has proved to be an effective means of analysis and design of nonlinear control systems as it was in the past for the Laplace transform complex variable theory and linear algebra in relation to linear systems Synthesis problems of longstanding interest like disturbance decoupling noninteracting control output regulation and the shaping of the input output response can be dealt with relative ease on the basis of mathematical concepts that can be easily acquired by a control scientist

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Nonlinear Control Systems II Alberto Isidori, 1999-09-22 This eagerly awaited follow up to Nonlinear Control Systems incorporates recent advances in the design of feedback laws for the purpose of globally stabilizing nonlinear systems via state or output feedback The author is one of the most prominent researchers in the field

Analysis and Design of Nonlinear Feedback Control Systems George Julius Thaler, Marvin P. Pastel, 2012-07-01

Analysis and Design of Nonlinear Control Systems John E. Gibson, J. B. Pearson, J. R. Rowland, Purdue University. School of Electrical Engineering, G. N. Saridis, P. H. Swain, PURDUE UNIV LAFAYETTE IN CONTROL AND INFORMATION SYSTEMS LAB., 1965 This report deals with problems in the analysis and design of nonlinear control systems In particular the topics of worst case error analysis stability of linear and nonlinear time varying systems optimum control with bounded state variables and computational solutions of optimization problems are treated The report is a continuation of the effort detailed in MDC TR 65 3 consequently the reader is encouraged to refer to this for appropriate background theory Author

Nonlinear and Optimal Control Systems Thomas L. Vincent, Walter J. Grantham, 1997-06-23 Designed for one semester introductory senior or graduate level course the authors provide the student with an introduction of analysis techniques used in the design of nonlinear and optimal feedback control systems There is special emphasis on the fundamental topics of stability controllability and optimality and on the corresponding geometry associated with these topics Each chapter contains several examples and a variety of exercises

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