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87k Accesses 279 Citations 3 Altmetric Page 2T. Cotroneo. Algorithms in Behavioral Systems Theory. Doctoral dissertation, Faculty of Mathematics and Physical Sciences, University of Groningen, 2001. Google Scholar T. Cotroneo and J.C. Willems. The simulation problem for high order differential equations. Applied Mathematics and Computation, 145:821-851, 2003.MATH CrossRef MathSciNet Google Scholar J.W. Polderman and J.C. Willems. Introduction to Mathematical Systems Theory: A Behavioral Approach. Springer-Verlag, 1998. Google Scholar J.C. Willems. Paradigms and puzzles in the theory of dynamical systems. IEEE Trans. on Automat. Contr., 36:259-294, 1991.MATH CrossRef MathSciNet Google Scholar J.C. Willems. Modeling open and interconnected systems. IEEECSM, 2007. To appear. Google Scholar This book introduces nonlinear control systems at a level suitable for graduate students and researchers. Chapter 1 introduces invariant distributions, a fundamental tool in the analysis of the internal structure of nonlinear systems. It is shown that a nonlinear system locally exhibits decompositions into parts similar to those introduced by Kalman for linear systems. Chapter 2 explains to what extent global decompositions may exist, corresponding to a partition of the whole state space into lower dimensional subsets. Chapter 3 describes various formats in which the input-output map of a nonlinear system may be represented, and provides a short description of the fundamentals of realization theory. Chapter 4 illustrates how a series of relevant design problems can be solved for a single-input single-output nonlinear system. It explains how a system can be transformed into a linear and controllable one, discusses the role of the nonlinear analogue of the notion of "zero", and describes the problem of asymptotic tracking, model matching and disturbance decoupling. Chapter 5 covers similar subjects for those multivariable nonlinear systems which can be rendered noninteractive by means of static state feedback, and Chapters 6 and 7 are devoted to control via dynamic feedback for a broader class of multivariable nonlinear systems. The book was first published in 1985 as Volume 72 in the series Lecture Notes in Control and Information Sciences. The new edition has been thoroughly revised and furnished with examples and exercises at the end of each chapter. We've detected that JavaScript is disabled in this browser. Please enable JavaScript or switch to a supported browser to continue using twitter.com. You can see a list of supported browsers in our Help Center. Help Center Showing 1-30 Start your review of Nonlinear Control Systems (Communications And Control Engineering Series) James Woods rated it it was amazing Jan 21, 2022 Moulid rated it really liked it May 31, 2013 Sam Nazari rated it really liked it Jan 18, 2015 Selma rated it it was amazing Dec 06, 2021 Erick rated it really liked it Jan 28, 2016 Reza Mardani rated it it was amazing Nov 16, 2015 Morvin Zha marked it as to-read Jun 13, 2015 NABEEL marked it as to-read Nov 20, 2015 Eraserhead marked it as to-read Oct 31, 2017 Yasir marked it as to-read Jan 06, 2018 Zhengguo marked it as to-read Jul 16, 2018 Sai Tej marked it as to-read Jul 25, 2019 Rodrigo marked it as to-read Apr 04, 2020 Tigre200 marked it as to-read Dec 14, 2021 Boubekeur marked it as to-read Jun 09, 2022 Download & View Nonlinear Control Systems, Third Edition by Alberto Isidori as PDF for free Alberto Isidori was born in Rapallo, Italy. He graduated in electrical engineering from the University of Rome in 1965. In 1969 he obtained a degree equivalent to a doctorate in automatic control from the University of Rome. Since 1975, he has been Professor of Automatic Control at the University of Rome "La Sapienza". Since 1989, he has also held a position of professor (on a half-time basis) at the Department of Systems Science and Mathematics, Washington University, St. Louis, Missouri. He has held visiting positions at several academic institutions, including the University of Illinois (Urbana, Il.), the University of California (Berkeley, Ca.) and the ETH (Zurich, Switzerland). His research interests are primarily focused on mathematical control theory and control engineering. In 1979, Alberto Isidori initiated a research program aimed at the extension of so-called "geometric theory" of multivariable linear systems, pioneered in the early 1970s by various authors, to linear systems. Linear algebra and linear geometric methods were replaced in nonlinear systems by the methods of differential geometry, whose usefulness in the study of controllability, observability, and minimality of nonlinear systems had been demonstrated in the early 70s. The main intuition of Isidori was to use differential geometric methods in the synthesis of feedback laws for nonlinear systems, more or less in the same way as linear geometric methods were used in the synthesis of feedback laws for linear systems. The result of this seminal work was the development of systematic methods addressing outstanding design problems like feedback linearization, noninteracting control, disturbance decoupling, and model matching. From 1985 to 1990 Isidori's research concentrated on the development of the "nonlinear analogue" of the notion of the "zero" of a transfer function. Taking as a point of departure the "geometric" interpretation of this notion, the concept of nonlinear zero dynamics was introduced, studied, and applied. As a result, it was shown that most of the features of the notion of zeros of the transfer function of a linear system are actually manifestations of more general principles. Remarkable examples of application of this theory consisted in the study and the solution of the nonlinear equivalent of the so-called "servomechanism problem" of linear system theory and in the characterization of the conditions for feedback equivalence to a nonlinear passive system. Since the 90s, Isidori has focused his research interests on problems of disturbance attenuation and robust stabilization of nonlinear systems. Professional Activities -President of the European Union Control Association (1995-1997).-Member of the IFAC Council (1993-1996). - President-elect of IFAC (three-year term to begin following IFAC World Congress in Seoul 2008)-On the Editorial Board of: European Journal of Control (since 1995), Automatica (since 1990), IEEE Transactions on Automatic Control (since 1990), International Journal of Control (since 1990), International Journal of Robust and Nonlinear Control (since 1991), Journal of Mathematical Systems, Estimation and Control (since 1991), Mathematics of Control, Signals and Systems (1987-89), Applied Stochastic Models and Data Analysis (since 1985), Systems and Control Letters (1981-88). Awards and Honors -Georgio Quazza Medal of IFAC, for ?pionering and fundamental contributions to the theory of nonlinear control,? 1996.-Fellow of the Institute of Electrical and Electronic Engineers, for ?fundamental contributions to nonlinear control theory?, 1987.-Outstanding Paper Award for papers published on IEEE Transactions on Automatic Control, in 1981 and in 1990.-Outstanding Paper Award a paper published on Automatica in1991. Selected Publications Nonlinear Control Systems (3rd edition), Springer Verlag (1995), pp. 1-549. Topics in Control Theory, with W. Knobloch and D. Flockorz, Birkhauser (1993), pp. 1-166. Output Regulation of Uncertain Nonlinear Systems, with C.L. Byrnes and F. Delli Priscoli, Birkhauser (1997), pp. 1-122. Trends in Control Theory (editor), Springer Verlag (1995), pp. 1-422. Systems, Models and Feedback (co-editor, with T.J. Tarn), Birkhauser (1992), pp. 1-402. Nonlinear Control Systems, Third Edition by Alberto Isidori Nonlinear Control Systems - II by Isidori Nonlinear Control Systems. [222]Nonlinear Dynamical Control Systems [222]Nonlinear Dynamical Control Systems Exercises in Nonlinear Control Systems Spacecraft Systems Engineering Third Edition Hassan K. Khalil Nonlinear Systems (3rd Edition) Hassan K. Khalil Nonlinear Systems (3rd Edition) Control Systems by Bhakshi nonlinear control systems analysis and design Control Systems by Bhakshi Control Systems by Bhakshi 98541503 Nonlinear Systems Solutions 98541503 Nonlinear Systems Solutions MODERN OPERATING SYSTEMS THIRD EDITION PROBLEM SOLUTIONS GATE Control Systems by Kanodia Nonlinear and Adapative Control GATE Control Systems by Kanodia applied nonlinear control Applied Nonlinear Control Practical Loss Control Leadership Third Edition Practical Loss Control Leadership Third Edition Nonlinear Programming by Bertsekas

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