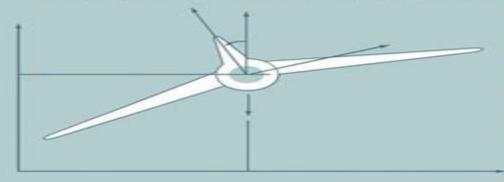
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# Nonlinear Control of Engineering Systems

A Lyapunov-Based Approach



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aerospace stu dents engineers and scholars are thoroughly studied to build the bridge between theory and practice as well as to illustrate the practical application of control theory through illustrative examples It is the author's goal to write a book that can be used to teach undergraduate and graduate classes in automatic control and nonlin ear control at electrical mechanical and aerospace engineering departments The book is also addressed to engineers and scholars and the examples considered allow one to implement the theory in a great variety of industrial systems. The main purpose of this book is to help the reader grasp the nature and significance of multivariable control Lyapunov-Based Control of Robotic Systems Aman Behal, Warren Dixon, Darren M. Dawson, Bin Xian, 2009-12-17 Lyapunov Based Control of Robotic Systems describes nonlinear control design solutions for problems that arise from robots required to interact with and manipulate their environments Since most practical scenarios require the design of nonlinear controllers to work around uncertainty and measurement Stability and Control of Dynamical Systems with Applications related issues the authors use Lyapunov s direc Derong Liu, Panos J. Antsaklis, 2012-12-06 It is with great pleasure that I offer my reflections on Professor Anthony N Michel s retirement from the University of Notre Dame I have known Tony since 1984 when he joined the University of Notre Dame s faculty as Chair of the Depart ment of Electrical Engineering Tony has had a long and outstanding career As a researcher he has made im portant contributions in several areas of systems theory and control theory espe cially stability analysis of large scale dynamical systems The numerous awards he received from the professional societies particularly the Institute of Electrical and Electronics Engineers IEEE are a testament to his accomplishments in research He received the IEEE Control Systems Society's Best Transactions Paper Award 1978 and the IEEE Circuits and Systems Society's Guillemin Cauer Prize Paper Award 1984 and Myril B Reed Outstanding Paper Award 1993 among others In addition he was a Fulbright Scholar 1992 and received the Alexander von Hum boldt Forschungspreis Alexander von Humboldt Research Award for Senior U S Scientists from the German government 1997 To date he has written eight books and published over 150 archival journal papers Tony is also an effective administrator who inspires high academic standards Control of Nonlinear Systems Yongduan Song, Kai Zhao, Hefu Ye, 2024-08-14 The book Control of Nonlinear Systems Stability and Performance fills a crucial gap in the field of nonlinear control systems by providing a comprehensive yet accessible treatment of the subject Unlike many existing texts that are either too complex for beginners or omit essential topics this book strikes the right balance of mathematical rigor and practicality The main objective of the book is to simplify and unify the existing techniques for designing and analyzing control systems for nonlinear systems It aims to alleviate confusion and difficulty in understanding these methods making it an invaluable resource for students researchers and practitioners in the field By presenting the material in a tutorial manner the book enhances the reader s understanding of the design and analysis of a wide range of control methods for nonlinear systems. The emphasis on stability and performance highlights the practical relevance of the concepts discussed in the book Overall Control of Nonlinear Systems Stability and Performance is a valuable contribution to

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