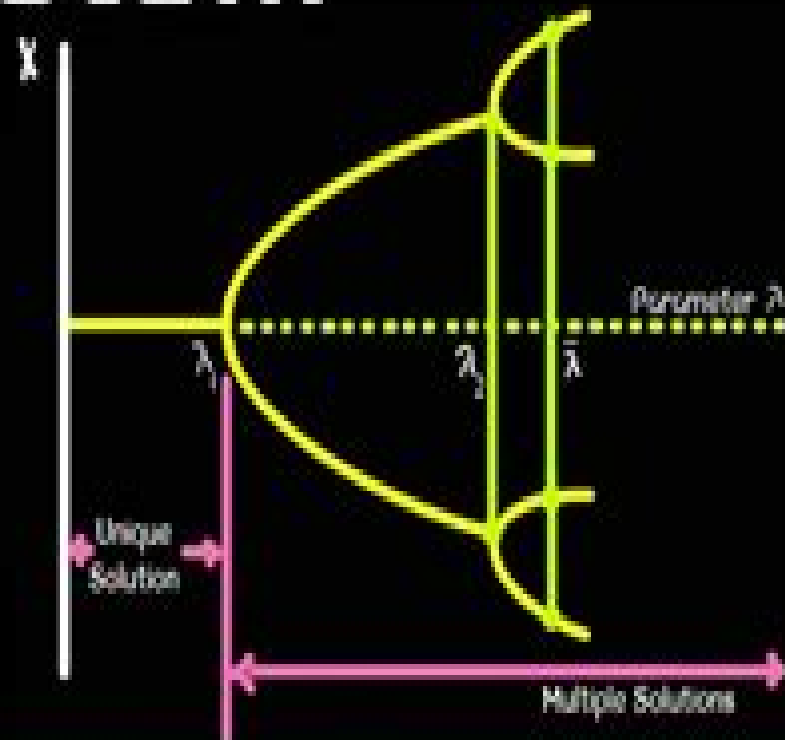


Introduction to Nonlinear Control System



Nonlinear Control Systems An Introduction

Alberto Isidori



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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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Analysis and Synthesis of Nonlinear Control Systems Miguel Bernal, Antonio Sala, Zsófia Lendek, Thierry Marie Guerra, 2022-02-05 This book presents a modern perspective on the modelling analysis and synthesis ideas behind convex optimisation based control of nonlinear systems it embeds them in models with convex structures Analysis and Synthesis of Nonlinear Control Systems begins with an introduction to the topic and a discussion of the problems to be solved It then explores modelling via convex structures including quasi linear parameter varying Takagi Sugeno models and linear fractional transformation structures The authors cover stability analysis addressing Lyapunov functions and the stability of polynomial models as well as the performance and robustness of the models With detailed examples simulations and programming code this book will be useful to instructors researchers and graduate students interested in nonlinear control systems *Nonlinear Control Systems 2004* Frank Allgower, Michael Zeitz, 2005-02-02

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