

# Slotine Solution Applied Nonlinear Control Stroitelore

**Zhiyong Chen,Jie Huang**

*Applied Nonlinear Control* Jean-Jacques E. Slotine, Weiping Li, 1991 Nonlinear systems analysis - Phase plane analysis - Fundamentals of Lyapunov theory - Advanced stability theory - Describing function analysis - Nonlinear control systems design - Feedback linearization - Sliding control - Adaptive control - Control of multi-input physical systems.

**Advances in Applied Nonlinear Optimal Control** Gerasimos Rigatos, Electra Karapanou, 2020-11-19 This volume discusses advances in applied nonlinear optimal control, comprising both theoretical analysis of the developed control methods and case studies about their use in robotics, mechatronics, electric power generation, power electronics, micro-electronics, biological systems, biomedical systems, financial systems and industrial production processes. The advantages of the nonlinear optimal control approaches which are developed here are that, by applying approximate linearization of the controlled systems' state-space description, one can avoid the elaborated state variables transformations (diffeomorphisms) which are required by global linearization-based control methods. The book also applies the control input directly to the power unit of the controlled systems and not on an equivalent linearized description, thus avoiding the inverse transformations met in global linearization-based control methods and the potential appearance of singularity problems. The method adopted here also retains the known advantages of optimal control, that is, the best trade-off between accurate tracking of reference setpoints and moderate variations of the control inputs. The book's findings on nonlinear optimal control are a substantial contribution to the areas of nonlinear control and complex dynamical systems, and will find use in several research and engineering disciplines and in practical applications.

**Stabilization and Regulation of Nonlinear Systems** Zhiyong Chen, Jie Huang, 2017-04-30 The core of this textbook is a systematic and self-contained treatment of the nonlinear stabilization and output regulation problems. Its coverage embraces both fundamental concepts and advanced research outcomes and includes many numerical and practical examples. Several classes of important uncertain nonlinear systems are discussed. The state-of-the-art solution presented uses robust and adaptive control design ideas in an integrated approach which demonstrates connections between global stabilization and global output regulation allowing both to be treated as stabilization problems. *Stabilization and Regulation of Nonlinear Systems* takes advantage of rich new results to give students up-to-date instruction in the central design problems of nonlinear control, problems which are a driving force behind the furtherance of modern control theory and its application.

The diversity of systems in which stabilization and output regulation become significant concerns in the mathematical formulation of practical control solutions—whether in disturbance rejection in flying vehicles or synchronization of Lorenz systems with harmonic systems—makes the text relevant to readers from a wide variety of backgrounds. Many exercises are provided to facilitate study and solutions are freely available to instructors via a download from [springerextras.com](http://springerextras.com). Striking a balance between rigorous mathematical treatment and engineering practicality, *Stabilization and Regulation of Nonlinear Systems* is an ideal text for graduate students from many engineering and applied-mathematical disciplines seeking a contemporary course in nonlinear control. Practitioners and academic theorists will also find this book a useful reference on recent thinking in this field.

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