

Introduction to the Mathematical Theory of Control

By **Alberto Bressan and Benedetto Piccoli**

This book aims to provide an introduction to the mathematical theory of nonlinear control systems. It contains many topics that are usually scattered among different texts, which include:

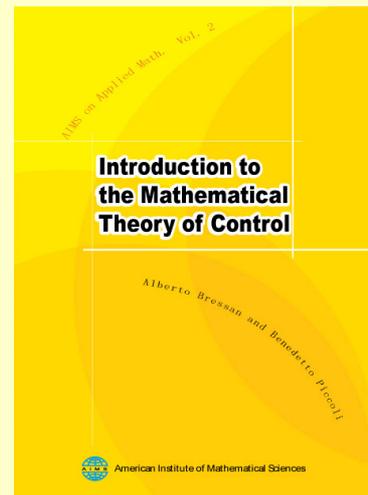
- Basic properties of control systems
- Controllability of linear and nonlinear systems
- Lie brackets and reachability
- Optimal control and Pontryagin Maximum Principle
- Asymptotic stabilization
- Hamilton-Jacobi-Bellmann equations and viscosity solutions
- Optimal synthesis

This book also contains some recent topics which were never before included in a textbook, including:

- Patchy feedbacks
- Impulsive systems

This book is an ideal textbook for engineering and math graduate students. Desk copies are available upon request.

It provides a richly illustrated overview of the basic techniques and results in the theory of nonlinear control. It is self-contained with various mathematical appendices. Students will be aided by its lucid exposition, and the more than 100 figures and 100 exercises will help the reader understand key geometric ideas and build an intuition for the field.



Price and Shipping

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300 pages

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- USA: \$5 for the first book plus \$1 for each additional book;
- All other countries: \$12 by air mail, per copy
- Detail: The detailed contents and introduction chapter are available at <http://aims sciences.org>

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