Introduction to the Mathematical Theory of Control
By Alberto Bressan and Benedetto Piccoli

This book provides an introduction to the mathematical theory of nonlinear control systems. It contains many topics that are usually scattered among different texts, such as:

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

The book also presents some topics of current research, which were never before included in a textbook, including:

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This volume will serve as an ideal textbook for graduate students. It is self-contained, with several appendices covering a wide mathematical background.

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