TK8103 Advanced Nonlinear Control

Lecture 1: Introduction

Outline I

Today's goals

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After this course you should...

- Know more about the backstepping technique and how it can be applied to nonlinear systems
  - Or maybe you will just know how to make slides
  - Or maybe not?
- Goal 1: item
  - Goal 1.1: subitem

Today's goals

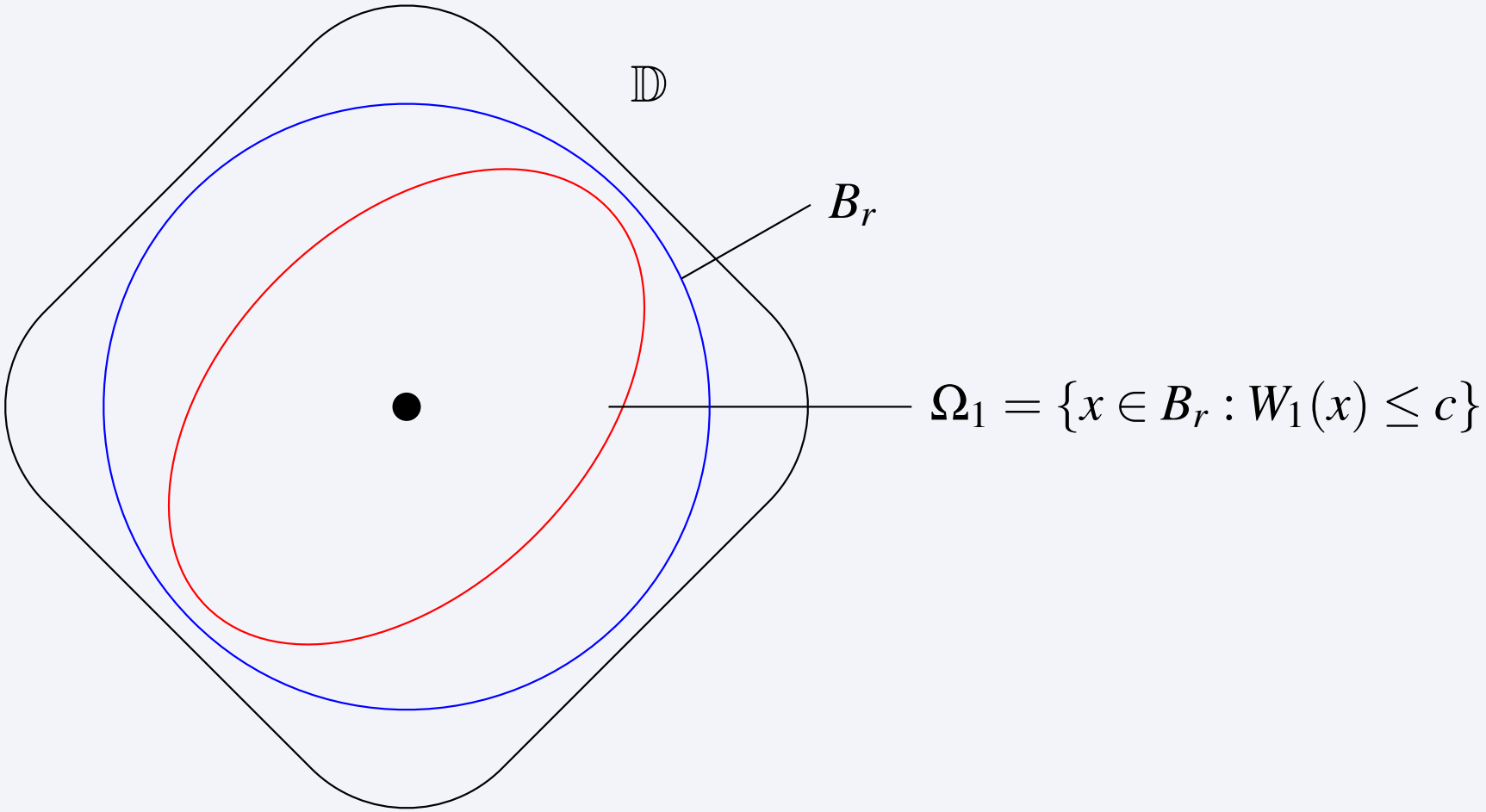
Literature

Today's lecture is based on

Khalil **Section 13.4 Backstepping**
- Theory
- Examples

Theory

FIGURE!



Question 1

Question 1

Questions?

No? Great!

Example 1: Integrator backstepping

Example

$$V(x) = \frac{x_1^2}{(1+x_1^2)} + x_2^2$$