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a slightly more abstract (mathematical)  
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A Mathematical Introduction to Robotic Manipulation by Murray, Richard M., Li, Zexiang, Sastry, S. Shankar, Sastry, S. Shankara (March 22, 1994) Paperback  
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But this book on robotics is a worthy rejoinder. It can be regarded as an advanced text in classical mechanics. It shows how mathematical treatments of rigid and non-rigid body rotations and displacements are necessary to correctly model robot manipulators. Plus how holonomic constraints can be used to determine system behaviour.

### **Amazon.com: Customer reviews: A Mathematical Introduction ...**

R.M. Murray, Z. Li, and S. Sastry, A Mathematical Introduction to Robotic Manipulation, CR Press, 1994. The 1st edition of this book is available freely online at the link above, and is perfectly

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adequate for the course; We will refer to this text as MLS (the initials of the authors last names). While the course topics will follow the text subjects, additional material not in the text will often be presented in class.

## **ME115 2016 - Robotics**

Unformatted text preview: 1 LECTURE 1

- Introduction and Background
- Open-loop Vs Closed-loop Control Systems
- Control Objectives
- Mathematical Representation of Systems
- System Classification
- Laplace Transform
- Transfer Function Introduction and Background
- The input signal(s) of the plant are manipulated in order to make the output signal(s) behave appropriately.

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