

# Spong Robot Dynamics And Control Solution

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Robot Dynamics and Control Second Edition Mark W Spong, Seth Hutchinson, and M Vidyasagar January 28, 2004

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### **ME 5286: Robotics**

- Mark W Spong, M Vidyasagar, Robot Dynamics and Control, John Wiley, 1989 There is also a "Newer" edition: - Mark W Spong, Seth Hutchinson, and M Vidyasagar, "Robot Modeling and Control," Wiley, 2006 Either is acceptable ME5286: Robotics 2 References for robotics and image processing portion of class (NONE OF THESE ARE REQUIRED): (a) Peter Corke, Robotics, Vision and Control

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1996 [2], and later of the Boston Dynamics BigDog quadruped robot in 2005 that legged robots nally began to deliver real-life capabilities that are just beginning to match the long sought animal-like mobility over rough terrain Not matching yet the capabilities of humans and animals, legged robots do contribute however already to understanding their locomotion, as evidenced by the many

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MW Spong, "Modeling and Control of Elastic Joint Robots," Transactions of the ASME, J Dynamic Systems Measurement and ControlSystems, Measurement and Control, Vol 109 pp 310 Vol 109, pp 310-319 Dec 1987319, Dec 1987 A De Luca, "Dynamic Control of Robots with Joint Elasticity," IEEE Int Conf Robotics and Automation, pp 152-158, Philadelphia, 1988 •Joint flexibility had

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