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Robotics, Vision, and Control, Peter Corke, Springer, 2011. Introduction to Robotics, John J. Craig, Addison-Wesley Publishing, Inc., 1989. Introduction to Robotics, P. J. McKerrow, ISBN: 0201182408 Modern Robotics: Mechanics, Planning, and Control, Kevin Lynch and Frank Park, Cambridge University Press, 2017. ISBN: 9781107156302.

16-311 Introduction to Robotics
exercises can be used with the MATLAB Robotics Toolbox2 created by Peter Corke, Principal Research Scientist with CSIRO in Australia. Chapter 1 is an introduction to the field of robotics. It introduces some background material, a few fundamental ideas, and the adopted notation of the book, and it previews the material in the later chapters.

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Increasingly, robots are being used in environments inhospitable to humans such as the deep ocean, inside nuclear reactors, and in deep space. The techniques used to control these robots are the subject of this book. The author begins with a basic introduction to robot control and covers topics such as teleprompting, operator interfaces, visual imagery, and command generation. Additionally, problematic issues are addressed, including noisy control lines, feedback and response information, and predictive displays.

A modern and unified treatment of the mechanics, planning, and control of robots, suitable for a first course in robotics.

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Niku offers comprehensive, yet concise coverage of robotics that will appeal to engineers. Robotic applications are drawn from a wide variety of fields. Emphasis is placed on design along with analysis and modeling. Kinematics and dynamics are covered extensively in an accessible style. Vision systems are discussed in detail, which is a cutting-edge area in robotics. Engineers will also find a running design project that reinforces the concepts by having them apply what they’ve learned.