Introduction To Robotics Mechanics Control 3rd Edition

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This subdiscipline of robotics has its foundations in several classical fields. The major relevant fields are mechanics, control theory, and computer science. In this book, Chapters 1 through 8 cover topics from mechanical engineering and mathematics, Chapters 9 through 11 cover control-theoretical material, and Chapters 12 and 13

Introduction to Robotics - Sharif
This course provides a mathematical introduction to the mechanics and control of robots that can be modeled as kinematic chains. Topics covered include the concept of a robot's configuration space and degrees of freedom, static grasp analysis, the description of rigid body motions, kinematics of open and closed chains, and the basics of robot control.

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Over all, I would say this is the best source for understanding mechanics and control theory as it relates to robotics motion. It really gets into the details that books on the subject of computational robots such as "Introduction to Autonomous Mobile Robots" and "Computational Principles of Mobile Robotics" simply do not have the room to accommodate.

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For senior-year or first-year graduate level robotics courses generally taught from the mechanical engineering, electrical engineering, or computer science departments. Since its original publication in 1986, Craig's Introduction to Robotics: Mechanics and Control has been the market's leading textbook used for teaching robotics at the university level.

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