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Since its original publication in 1986, Craig's Introduction to Robotics: Mechanics and Control has been the leading textbook for teaching robotics at the university level. Blending traditional mechanical engineering material with computer science and control theoretical concepts, the text covers a range of topics, including rigid-body transformations, forward and inverse positional kinematics, velocities and Jacobians of linkages, dynamics, linear and non-linear control, force control ...

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Craig, Introduction to Robotics: Mechanics and Control ...

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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The links of a robot mechanism can be arranged in serial fashion, like the familiar open chain arm shown in Figure 1.1(a). Robot mechanisms can also have closed loops, such as the Stewart-Gough platform shown in Figure 1.1(b). In the case of an open chain, all of its joints are actuated, while in the case of mechanisms with closed loops only a subset of its joints may be actuated.

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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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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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He is a fellow of the IEEE, former Editor-in-Chief of the IEEE Transactions on Robotics, and developer of the edX courses Robot Mechanics and Control I, II. Mechatronics Modern Robotics is written at the system level: you learn about the kinematics, dynamics, motion planning, and control of an entire robot system.

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This introduction to robotics offers a distinct and unified perspective of the mechanics, planning and control of robots. Ideal for self-learning, or for courses, as it assumes only freshman-level physics, ordinary differential equations, linear algebra and a little bit of computing background.

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