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Mechanisms and Robots Analysis with MATLAB® enables the reader to understand the mechanical behavior of complex engineering structures, mechanisms, and robots by discussing how to formulate the necessary mathematical equations and how to solve them using MATLAB®.

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Mechanisms and Robots Analysis with MATLAB® will allow students to build on their knowledge of mechanics and calculus to develop an interest in the classical principles of robotics and mechanism systems. Instructors will find this a useful teaching tool and even experts will be able to appreciate its clear, informative approach.

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Mechanisms and robots have been and continue to be essential components of mechanical systems. Mechanisms and robots are used to transmit forces and moments and to manipulate objects. A knowledge of the kinematics and dynamics of these kinematic chains is most important for their design and control.

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