

# Fundamentals of Robotic Mechanical Systems: Theory, Methods, and Algorithms (Mechanical Engineering Series)

Jorge Angeles



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# **Fundamentals of Robotic Mechanical Systems: Theory, Methods, and Algorithms (Mechanical Engineering Series)** Jorge Angeles

This book deals with robots - such as remote manipulators, multifingered hands, walking machines, flight simulators, and machine tools - that rely on mechanical systems to perform their tasks. It aims to establish the foundations on which the design, control and implementation of the underlying mechanical systems are based.

The treatment assumes familiarity with some calculus, linear algebra, and elementary mechanics; however, the elements of rigid-body mechanics and of linear transformations are reviewed in the first chapters, making the presentation self-contained. An extensive set of exercises is included and this new edition incorporates numerous advances.

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