



Robot Analysis: The Mechanics of Serial and Parallel Manipulators

Lung-Wen Tsai

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Complete, state-of-the-art coverage of robot analysis

This unique book provides the fundamental knowledge needed for understanding the mechanics of both serial and parallel manipulators. Presenting fresh and authoritative material on parallel manipulators that is not available in any other resource, it offers an in-depth treatment of position analysis, Jacobian analysis, statics and stiffness analysis, and dynamical analysis of both types of manipulators, including a discussion of industrial and research applications. It also features:

- * The homotopy continuation method and dalytic elimination method for solving polynomial systems that apply to robot kinematics
- * Numerous worked examples and problems to reinforce learning
- * An extensive bibliography offering many resources for more advanced study

Drawing on Dr. Lung-Wen Tsai's vast experience in the field as well as recent research publications, *Robot Analysis* is a first-rate text for upper-level undergraduate and graduate students in mechanical engineering, electrical engineering, and computer studies, as well as an excellent desktop reference for robotics researchers working in industry or in government.

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