



# Robot Analysis: The Mechanics of Serial and Parallel Manipulators

By Lung-Wen Tsai

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**Robot Analysis: The Mechanics of Serial and Parallel Manipulators** By Lung-Wen Tsai

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- \* The homotopy continuation method and dialytic elimination method for solving polynomial systems that apply to robot kinematics
- \* Numerous worked examples and problems to reinforce learning
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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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### **From the Back Cover**

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### **About the Author**

LUNG-WEN TSAI, PhD, is a professor in the Department of Mechanical Engineering and the Institute for Systems Research at the University of Maryland in College Park, Maryland. He received his PhD from Stanford University in 1973 and has had an extensive career in engineering, education, and industry. He is a fellow of the ASME. An internationally recognized expert in automotive engineering, mechanisms and machine theory, and robot manipulators, he is well published in leading robotics journals, including numerous articles in the *Journal of Robotics Systems* (Wiley), the *ASME Journal of Mechanical Design*, and *IEEE Transactions on Robotics and Automation*.

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