

Robot Analysis The Mechanics Of Serial And Parallel Manipulators

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This text covers the mechanics of both serial and parallel manipulator robots and includes solutions to state-of-the-art nonlinear equations that apply to robot kinematics. Numerous worked examples and problems are provided, making this book a reference for engineers and researchers working with robot applications.

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Robot Analysis: The mechanics of serial and parallel manipulators Lung-Wen Tsai. Year: 1999. Language: english. Pages: 519. ISBN: 0-471-322593-7. Series: Tj211.T75. File: PDF, 82.22 MB. Preview. Save for later . You may be interested in Powered by Rec2Me . Post a Review You can write a book review and share your experiences. ...

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Robot analysis : the mechanics of serial and parallel ...

Description. 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 ...

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The main emphasis of the course is the mechanics of complex structured robots such as parallel manipulators. Comprehensive kinematics and dynamic analysis of parallel manipulators is presented, and the control topologies for these robots are described.

MECH 573: Mechanics of Robotic Systems

This course provides a mathematical introduction to the mechanics and control of robots that can be modeled as kinematic chains. Topics covered include the concept of a robot's configuration space and degrees of freedom, static grasp analysis, the description of rigid body motions, kinematics of open and closed chains, and the basics of robot control.

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This text covers the mechanics of both serial and parallel manipulator robots and includes solutions to state-of-the-art nonlinear equations that apply to robot kinematics. Numerous worked examples and problems are provided, making this book a reference for engineers and researchers working with robot applications.

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Robot Hands and the Mechanics of Manipulation explores several aspects of the basic mechanics of grasping, pushing, and in

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Dynamics and control of a 5-DOF manipulator based on an H ...

Lung-Wen Tsai, "Robot analysis: the mechanics of serial and parallel manipulators", New York, Wiley, 1999. 3 M. W. Spong, S. Hutchinson, M. Vidyasagar, "Robot Modeling and Control", New York, Wiley, 2006.

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The robotic arm was designed using the Fusion 360 program, after which the components of the robotic arm were manufactured using two CNC machines, namely: a Beaver VC5 milling machine and the Okuma Lb1 lathe. After assembling the robotic arm, tests for functionality were performed by actuating the stepper motors that are attached to the robot arm.

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