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The text is designed for undergraduate Mechanical Engineering courses in Kinematics and Dynamics of Machinery. It is a tool for professors who wish to develop the ability of students to formulate and solve problems involving linkages, cams, gears, robotic manipulators and other mechanisms.

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Kinematics, Dynamics, and Design of Machinery by K. J. Waldron and G. L. Kinzel ©1996-97 by K. Waldron and G. Kinzel Department of Mechanical Engineering - ii - - 1 - Supplemental Exercise Problems for ... In the mechanism below, the angular velocity of Link 2 is 2 rad/s CCW and the angular

### **Kinematics, Dynamics, and Design of Machinery**

Mechanisms dynamics of machines A four-bar linkage or simply a 4-bar or four-bar is the simplest movable linkage. It consists of four rigid bodies (called bars or links), each attached to two others by single joints or pivots to form closed loop.

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a slider-crank mechanism. As a criterion for the optimization of the dynamic synthesis machine we choose the root mean square sum of the moments of driving forces, the forces of resistance and inertia forces which are reduced to the axis of rotation of the crank, for the n positions of the slider-crank mechanism.

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ME 321 © Kinematics and Dynamics of Machines 1.0 INTRODUCTION 1.1 Definitions Kinematics is the study of motion, without regard to forces. This is usually the first step in the analysis or design of a mechanism.

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