

COLLEGE OF MECHANICAL

Department of Mechanical & Aerospace Engineering NEWARK COLLEGE OF ENGINEERING, NEWARK, NJ Fall 2021

Contents

Section A: Introduction to the Course

Office Hours: 10:00 AM - 12:00 PM, Tuesdays and Thursdays, 2021
Email: professor@newarkcollegeofengineering.edu

Section B: Prerequisite List

Office Hours: 10:00 AM - 12:00 PM, Tuesdays and Thursdays, 2021
Email: professor@newarkcollegeofengineering.edu

Course Outline

Review of basic ideas of classical mechanics, including kinematics, dynamics, and energy. Introduction to the concepts of Lagrangian and Hamiltonian mechanics, including the principle of least action and the conservation of energy and momentum.

Chapter 1: Kinematics and Dynamics Problems

1. Kinematics problems
2. Dynamics problems
3. Kinematics problems
4. Dynamics problems

Chapter 2: Kinematics of Rigid Bodies

1. Kinematics of rigid bodies
2. Kinematics of rigid bodies
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Chapter 3: Kinematics, Dynamics, and Lagrangian Systems

1. Kinematics of rigid bodies
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Chapter 4: Kinematics of Rigid Bodies

1. Kinematics of rigid bodies
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Carleton Maae 2202 Course Manual

Judd E. Hollander



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