

**Dynamics (ME20001)**  
**Tutorial 3**

1

The 10-Mg truck hauls the 20-Mg trailer. If the unit starts from rest on a level road with a tractive force of 20 kN between the driving wheels of the truck and the road, compute the tension  $T$  in the horizontal drawbar and the acceleration  $a$  of the rig.

*Ans.*  $T = 13.33 \text{ kN}$ ,  $a = 0.667 \text{ m/s}^2$



2

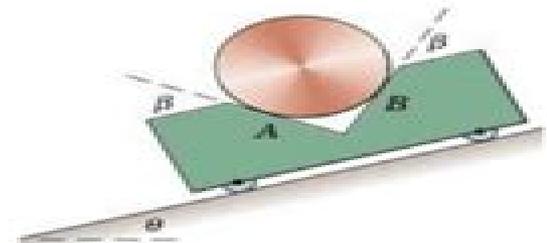
The 50-kg crate is stationary when the force  $P$  is applied. Determine the resulting acceleration of the crate if (a)  $P = 0$ , (b)  $P = 150 \text{ N}$ , and (c)  $P = 300 \text{ N}$ .



3

A cylinder of mass  $m$  rests in a supporting carriage as shown. If  $\beta = 45^\circ$  and  $\theta = 30^\circ$ , calculate the maximum acceleration  $a$  which the carriage may be given up the incline so that the cylinder does not lose contact at  $B$ .

*Ans.*  $a = 0.366g$



4

The system is released from rest with the cable taut. For the friction coefficients  $\mu_s = 0.25$  and  $\mu_k = 0.20$ , calculate the acceleration of each body and the tension  $T$  in the cable. Neglect the small mass and friction of the pulleys.

*Ans.*  $a_A = 1.450 \text{ m/s}^2$  down incline  
 $a_B = 0.725 \text{ m/s}^2$  up  
 $T = 105.4 \text{ N}$



# Dynamics Problems And Solutions

**RS Peters**



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## **Table of Contents Dynamics Problems And Solutions**

1. Understanding the eBook Dynamics Problems And Solutions
  - The Rise of Digital Reading Dynamics Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Dynamics Problems And Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Dynamics Problems And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamics Problems And Solutions
  - Personalized Recommendations
  - Dynamics Problems And Solutions User Reviews and Ratings
  - Dynamics Problems And Solutions and Bestseller Lists
5. Accessing Dynamics Problems And Solutions Free and Paid eBooks
  - Dynamics Problems And Solutions Public Domain eBooks
  - Dynamics Problems And Solutions eBook Subscription Services
  - Dynamics Problems And Solutions Budget-Friendly Options

6. Navigating Dynamics Problems And Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Dynamics Problems And Solutions Compatibility with Devices
  - Dynamics Problems And Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Dynamics Problems And Solutions
  - Highlighting and Note-Taking Dynamics Problems And Solutions
  - Interactive Elements Dynamics Problems And Solutions
8. Staying Engaged with Dynamics Problems And Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Dynamics Problems And Solutions
9. Balancing eBooks and Physical Books Dynamics Problems And Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Dynamics Problems And Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Dynamics Problems And Solutions
  - Setting Reading Goals Dynamics Problems And Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Dynamics Problems And Solutions
  - Fact-Checking eBook Content of Dynamics Problems And Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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