

## Unit 5: Test Review

**Directions:** Answer the questions below. Remember to show all your work and include units!

4. A string block is connected to a horizontal table, a small pulley in the block extends horizontally to a pulley on the edge of the table. A string mass (50 kg) is at the end of the cord.
- Show the FBD for both objects together.



5a. Calculate the acceleration of the block and mass. (3.26 m/s<sup>2</sup>)

5b. Calculate the tension in the cord. (355.8 N)

5. A string mass is allowed to accelerate down a frictionless 30° ramp.

a. Draw a force diagram for the block.



b. Determine the acceleration of the block as the it descends (2.0 m/s<sup>2</sup>).

# Modeling Workshop Project 2006 Unit 7 Test

**Manuel Martinez,Raimar Scherer**



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**Software Process Change** Qing Wang, 2006-05-09 This book constitutes the refereed proceedings of the First joint International Software Process Workshop and the International Workshop on Software Process Simulation and Modeling SPW ProSim 2006 The 34 revised full papers presented together with 4 keynote addresses are organized in topical sections on process tailoring and decision support process tools and metrics process management process representation analysis and modeling process simulation modeling process simulation applications and experience report

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**Innovations in Engineering Education**, 2007

**eWork and eBusiness in Architecture, Engineering and Construction. ECPPM 2006** Manuel Martinez, Raimar Scherer, 2020-11-25 The task of structuring information on built environment has presented challenges to the research community software developers and the industry for the last 20 years Recent work has taken advantage of Web and industry standards such as XML OWL IFC and STEP Another important technology for the fragmented AEC industry is digital communication Wired or wireless it brings together architects engineers and construction site workers enabling them to exchange information communicate and work together Virtual enterprise organization structures involving mobile teams over distance are highly compatible with the needs of the construction industry

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Roger Lee,2008-04-30 The 7th IEEE ACIS Conference and the 2nd IEEE ACIS Workshop on e Activity IWEA 2008 featured researchers from around the world The conference organizers selected 23 outstanding papers for this volume of Springer s Studies in Computational Intelligence      Modeling Software with Finite State Machines Ferdinand Wagner,Ruedi

Schmuki,Thomas Wagner,Peter Wolstenholme,2006-05-15 Modeling Software with Finite State Machines A Practical Approach explains how to apply finite state machines to software development It provides a critical analysis of using finite state machines as a foundation for executable specifications to reduce software development effort and improve quality It discusses the design of a state machine and of a system of state machines It also presents a detailed analysis of development issues relating to behavior modeling with design examples and design rules for using finite state machines This text demonstrates the implementation of these concepts using StateWORKS software and introduces the basic components of this software

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