

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 cord attached to the block extends horizontally to a pulley at the edge of the table. A string mass (hanging at the end of the cord)

a. Draw the FBD for both objects together.



b. Calculate the acceleration of the block and mass. (3.26 m/s²)

c. Calculate the tension in the cord. (25.8 N)

5. A string mass is allowed to accelerate down a frictionless 35° ramp.

a. Draw a force diagram for the block.



b. Determine the acceleration of the block as the it descends (2.9 m/s²)

Modeling Workshop Unit 7 Review Physics

RJ Shavelson



Modeling Workshop Unit 7 Review Physics:

American Journal of Physics ,1976 **Energy Research Abstracts** ,1990 **Modeling Human and Organizational Behavior** National Research Council,Division of Behavioral and Social Sciences and Education,Board on Human-Systems Integration,Panel on Modeling Human Behavior and Command Decision Making: Representations for Military Simulations,1998-08-31 Simulations are widely used in the military for training personnel analyzing proposed equipment and rehearsing missions and these simulations need realistic models of human behavior This book draws together a wide variety of theoretical and applied research in human behavior modeling that can be considered for use in those simulations It covers behavior at the individual unit and command level At the individual soldier level the topics covered include attention learning memory decisionmaking perception situation awareness and planning At the unit level the focus is on command and control The book provides short medium and long term goals for research and development of more realistic models of human behavior **The Undersea Journal** ,1975 **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency,1992-10 *Resources in Education* ,1993 Monthly Catalogue, United States Public Documents ,1983 **Physical Review** ,1916 Vols for 1903 include Proceedings of the American Physical Society *Monthly Catalog of United States Government Publications* ,1983 **Research in Education** ,1972 **Scientific and Technical Aerospace Reports** ,1976 **The Bookseller** ,1982 Railway Review ,1923 Government Reports Annual Index ,1994 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z Whitaker's Cumulative Book List ,1984 Government Reports Announcements & Index ,1996 **Energy** ,1981 *Canadiana* ,1979 **ERIC Educational Documents Index** Educational Resources Information Center (U.S.),1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education **Announcer** ,1995

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