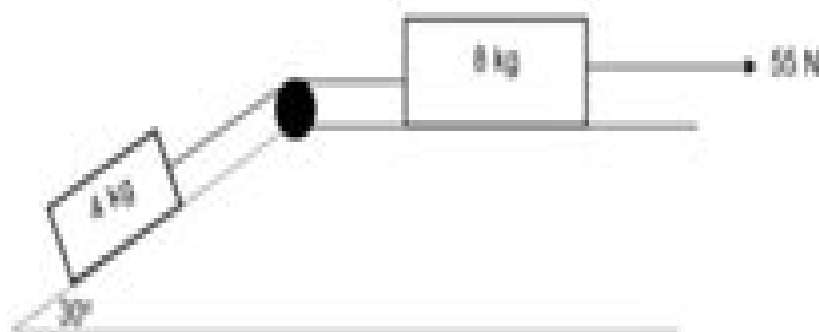


QUESTION 4

In the diagram below, an 8 kg block is connected to a 4 kg block by means of a light, inextensible string. A constant force of 55 N is applied to the 8 kg block to accelerate the combination of blocks to the right.



The kinetic frictional force between the 4 kg block and the inclined plane is 4 N while the kinetic frictional force between the 8 kg block and the horizontal plane is 8 N.

- 4.1 State Newton's second law of motion in words. (2)
- 4.2 Draw a free body diagram of all forces acting on the 4 kg block. (4)
- 4.3 Calculate the tension in the string connecting the two blocks. (6)
- 4.4 The angle of inclination is decreased to 10° . How will the change affect the coefficient of kinetic friction? (2)

Choose from INCREASES, DECREASES or REMAINS THE SAME.

Explain your answer.

(2)
[14]

NEWTON'S LAWS



11

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Bertug Ozarisoy,Hasim Altan



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Yearbook of International Organizations 2013-2014 (Volume 3) Union Of International Associations, Union of International Associations, 2013-08-09 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3

Science Education Research and Practice in Asia Mei-Hung Chiu, 2016-06-10 This book discusses the scope of science education research and practice in Asia It is divided into five sections the first consists of nine chapters providing overviews of science education in Asia China Lebanon Macau Malaysia Mongolia Oman Singapore Taiwan and Thailand The second section offers chapters on content analysis of research articles while the third includes three chapters on assessment and curriculum The fourth section includes four chapters on innovative technology in science education and the fifth section consists of four chapters on professional development and informal learning Each section also has additional chapters providing specific comments on the content This collection of works provides readers with a starting point to better understand the current state of science education in Asia

South African national bibliography, 1999 Classified list with author and title index

New Developments in the Appalachian-Caledonian-Variscan Orogen Yvette D. Kuiper, J. Brendan Murphy, R. Damian Nance, Robin A. Strachan, Margaret D. Thompson, 2022-08-01 This volume provides a comprehensive overview of our understanding of the evolution of the Appalachian Caledonian Variscan orogen It takes the reader along a clockwise path around the North Atlantic Ocean from the U S and Canadian Appalachians to the Caledonides of Spitsbergen Scandinavia Scotland and Ireland and thence south to the Variscides of Morocco

Characterization of Ore-Forming Systems from Geological, Geochemical and Geophysical Studies K. Gessner, T.G. Blenkinsop, P. Sorjonen-Ward, 2018-08-07 Economically viable concentrations of mineral resources are uncommon in Earth's crust Most ore deposits that were mined in the past or are currently being extracted were found at or near Earth's surface often serendipitously To meet the future demand for mineral resources exploration success hinges on identifying targets at depth Achieving this requires accurate and informed models of the Earth's crust that are consistent with all available geological geochemical and geophysical information paired with an understanding of how ore forming systems relate to Earth's evolving structure Contributions to this volume address the future resources challenge by i applying advanced microscale geochemical detection and characterization methods ii introducing more rigorous 3D Earth models iii exploring critical behaviour and coupled processes iv evaluating the role of geodynamic and tectonic setting and v applying 3D structural

models to characterize specific ore forming systems **The Lewisian** Graham Park,2022-05-01 The first 2 500 million years of the geological history of Britain are stored in the gneisses of the Lewisian Complex of NW Scotland Graham Park explores the long journey of discovery in which this history was gradually deciphered and the controversies and arguments in the scientific community over the past two centuries that arose in this period **The Web of Geological Sciences:** Marion E. Bickford,2017-09-29 The web of geological sciences Special papers 500 and 523 written in celebration of the 125th anniversary of the Geological Society of America Energy Policy Design in the Eastern Mediterranean Basin Bertug Ozarisoy,Hasim Altan,2023-09-28 This book explores energy consumption and thermal comfort in the social housing sector in the Eastern Mediterranean basin This book presents a novel methodological framework for the optimisation of post war social housing developments in the Eastern Mediterranean climate The authors draw on semi structured interviews to present evidence on in situ thermal sensation and provide the results of walk through and walk in thermographic surveys to highlight building fabric performance and highlight anomalies in the building envelopes The authors go on to show how this data informed retrofit design solution can be applied to reduce household energy consumption increase awareness of domestic energy use and inform effective policymaking decisions in energy use in the Eastern Mediterranean basin including the development of Energy Performance Certificate schemes This book will be of great interest to students and scholars of energy policy energy efficiency and planning It will also assist architects building engineers and other practitioners in closing the gap between the current understanding and the actual performance of existing residential building stocks in the Eastern Mediterranean basin Food Processing Stephanie Clark,Stephanie Jung,Buddhi Lamsal,2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science **Geologic Excursions from Fresno, California, and the Central Valley: A Tour of California's Iconic Geology** Keith Daniel Putirka,2013 This volume presents field guides that span the breadth of central California s geology The trips are associated with the 2013 GSA Cordilleran Section meeting convened in

Fresno California 18 25 May The guides are to geologic localities that are not only iconic but are also type examples of key geologic phenomena Provided by publisher

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