

EXERCISE 5

Name _____
Section _____

Constructing a Columnar Section from a Geologic Cross Section

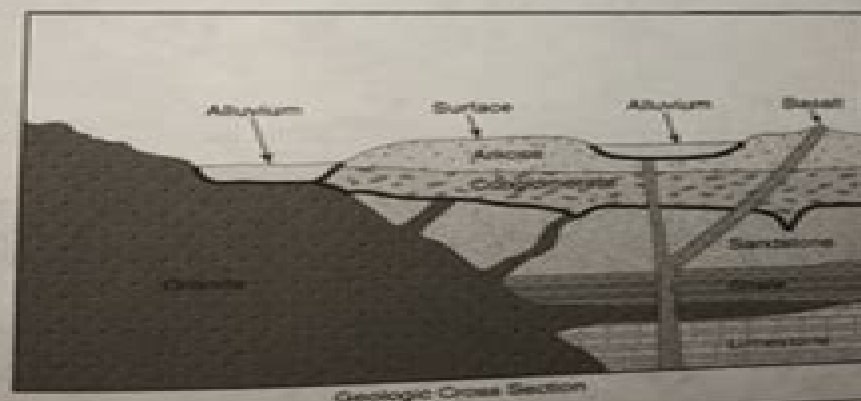
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Figure 2.12 is a schematic geologic cross section based on the mapping of different outcrops from several localities in a geographic area covering about 10 square miles. Formations shown by the same color and symbols are the same age. Study the cross section and complete the work called for in questions 1 and 2.

1. Construct a columnar section from this cross section using the numbered lines at the right of figure 2.12 to record your interpretation. Indicate the name of a rock formation (e.g., shale, granite, alluvium) or an unconformity in its appropriate position in the section as determined from the

adjacent geologic cross section. Igneous rock masses of the same age should be listed on the same line. Remember that the oldest unit is listed at the bottom.

2. Reexamine figure 2.12. In this simplified geologic cross section, no evidence of metamorphic activity has been shown. Recall the earlier discussion of types of metamorphism, metamorphic grade, and the classification of metamorphic rocks. Had metamorphic rocks been included, indicate what types you would expect to find, and why (see pages 45–46).



- 10 Alluvium
 - 9 Unconformity
 - 8 Basalt
 - 7 Arkose
 - 6 Conglomerate
 - 5 unconformity
 - 4 Granite
 - 3 Sandstone
 - 2 Shale
 - 1 Limestone
- Columnar Section

Figure 2.12

Geologic cross section and uncompleted columnar section. The names of the rock units and any unconformities are to be listed in the appropriate boxes of the columnar section as called for in Exercise 5.

Geos Physical Geology Lab Manual Answers

G Thomas



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Study Guide for Physical Geology, Geo 1001 (T451-W485) Robert Evan Sloan, E. C. Alexander (Jr.), 1985 Laboratory Manual in Physical Geology American Geological Institute, 2000 For majors and non majors in undergraduate lab courses for Introductory Geology and Physical Geology The best selling lab manual for undergraduate lab courses in Physical Geology or Introductory Geology for majors and non majors With contributions from more than 120 highly regarded geologists and geoscience educators and an exceptional illustration program by Dennis Tasa this user friendly laboratory manual focuses students on the basic principles of geology and their applications to everyday life in terms of natural resources natural hazards and human risks This edition pushes the frontiers of geologic education even further with the inclusion of four new computer based labs **Physical Geology** R. D. Dallmeyer, 1999-08 **Laboratory Manual for Physical Geology** Norris W. Jones, 2000-07 If it is important for you to incorporate the scientific method into your teaching this manual aims to help In every exercise there are scientific method boxes that provide students with insight into the relevance of the scientific method to the topic at hand The book also includes in greater depth problems a more challenging probe into certain issues They are more quantitative in nature and require more in depth critical thinking Internet exercises are also integrated throughout the text **Geology From Experience** E. Kirsten Peters, Larry E. Davis, 2000-11-05 Moving away from the observation and vocabulary focus of traditional physical geology lab manuals Peters and Davis's Geology from Experience offers experiments that favor hands on involvement and scientific problem solving Students are asked to use geological tools and techniques analyze data from observation experiment and research solve simple equations and make assessments and relevant predictions This approach class tested with great success by the authors gives students a real taste of the scientific experience by revealing the ways geologists actually do their work **The Publishers' Trade List Annual**, 1980

Subject Guide to Books in Print, 1991 **Scientific and Technical Books and Serials in Print**, 1989

Interdisciplinary Teaching About Earth and the Environment for a Sustainable Future David C. Gosselin, Anne E. Egger, J. John Taber, 2018-12-13 Interdisciplinary Teaching about the Earth and Environment for a Sustainable Future presents the outcomes of the InTeGrate project a community effort funded by the National Science Foundation to improve Earth literacy and build a workforce prepared to tackle environmental and resource issues The InTeGrate community is built around the shared goal of supporting interdisciplinary learning about Earth across the undergraduate curriculum focusing on the grand challenges facing society and the important role that the geosciences play in addressing these grand challenges The chapters in this book explicitly illustrate the intimate relationship between geoscience and sustainability that is often opaque to students The authors of these chapters are faculty members administrators program directors and researchers from institutions across the country who have collectively envisioned implemented and evaluated effective change in their classrooms programs institutions and beyond This book provides guidance to anyone interested in implementing change on

scales ranging from a single course to an entire program by infusing sustainability across the curriculum broadening access to Earth and environmental sciences and assessing the impacts of those changes **EAS 220 Lab Book** ,2007

Essentials of Geology James Stewart Monroe, Reed Wicander, 2002 Wicander Monroe s **ESSENTIALS OF GEOLOGY** 3rd Edition continues the authors tradition of presenting the basic principles and processes of geology in a clear interesting and concise narrative It focuses on how geology relates to the human experience through frequent use of real life examples and applications Lively writing and the use of analogies draw students into the material while a completely integrated pedagogical structure enhances students comprehension of the important and difficult concepts Throughout the text emphasizes the connections between the content and students lives

Education and Training in Geo-Engineering Sciences Iacint Manoliu, Nicoleta Radulescu, 2008-05-20 Covering a broad range of topics curricular matters in geo engineering education teaching learning and assessment in geo engineering education challenges in geotechnical engineering education issues in education and training in Engineering Geology the link university professional world in geo engineering this book will be invaluable to university teachers academics and professionals involved in education and training in geo engineering sciences **NUREG/CR.** U.S. Nuclear Regulatory Commission, 1979 The Canada School Journal ,1884 *Journal of Geoscience Education* ,1996 **The United States Catalog** ,1965 **The Cumulative Book Index** ,1963 A world list of books in the English language EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency, 1995-10 **El-Hi Textbooks in Print** ,1984 American Men of Science James McKeen Cattell, Jaques Cattell, 1921

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