



FIGURE 14.12

Block diagram to be completed for Problem 3.

- (5) Label the hanging wall and footwall on the top and side faces.
 - (6) With Side 1 up, number the beds in order of age, with 1 the oldest. Are the beds at the surface of the upthrown block generally older or younger than those at the surface of the downthrown block? Why?
 - (7) What kind of fault is this?
3. Figure 14.12 is a block diagram showing a fault and a number of folds. The front face of this diagram is perpendicular to the strike of these features, so you can easily measure the dip of the fault and bedding planes where indicated. North is into the page, west and east are marked.
- a. Use a protractor to measure the dip angles along a single fold at points 1 through 5 on the front face of the diagram. Horizontal lines indicate the precise location for each measurement.
- | | | | | |
|----|----|----|----|----|
| 1. | 2. | 3. | 4. | 5. |
|----|----|----|----|----|
- b. A geologist would take strike and dip measurements at convenient outcrops on the surface. Take dip measurements along the front of the block diagram, as close to the surface as possible. Put the appropriate strike and dip symbols in the six white ovals along the top of the diagram, and write each dip measurement in the appropriate spot.
 - c. Draw dashed axial traces for the three folds not cut by a fault. Put them along both the vertical and horizontal surface, and include the appropriate symbol from Figure 14.4.
 - d. What type of fault is illustrated? Be sure the correct map symbol is used to indicate dip. Put arrows on the vertical surface and map symbols on the horizontal surface to indicate the relative sense of motion across the fault.
4. Partially completed block diagrams are shown in Figure 14.13. Using the information provided for each diagram, fill in the blank faces on the blocks and answer the questions.
- a. The vertical column on the front face of Figure 14.13A shows the different rock units encountered in an old oil well.
 - (1) Use the available information to help you complete the diagram.
 - (2) What kind of fold is this (anticline, syncline, upright, inclined, overturned, or recumbent; plunging or non-plunging)?
 - (3) Illustrate the position of the axial surface of the fold by sketching its trace on the top and end of the block. (The trace is the imaginary line formed where the axial surface intersects another surface).

Geology Lab Manual Answer Key

AW Chickering



Geology Lab Manual Answer Key:

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 *Planetary Geology*, 1998 *Physical Geology Lab Manual and Note Book* John Tomikel, 1966 The Publishers' Trade List Annual, 1982 *Problem Solving in Geology* Sheldon Judson, 2000-02 B Designed give readers instruction and practice with basic geologic field and lab skills this exceptionally affordable yet high quality lab manual workbook features 68 unique and intuitive exercises that covering 19 key geologic topics The exercises are based on the principles of scientific inquiry and challenge readers to think beyond the activity at hand to the larger questions of applied geologic work Problems range from the simple to complex and calculations are based on simple arithmetic ROCK EVOLUTION Minerals and Rocks MAPPING THE EARTH Topographic Maps Air Photos Geologic Maps Structures and Earth History Seismic Reflections Reveal Subsurface Geology SURFICIAL PROCESSES AND THE ENVIRONMENT Landslides Streams Ground Water Glaciation Beaches PLATE TECTONICS Earthquakes and Seismic Risk Volcanos and Volcanic Hazards Earthquakes Volcanos and Plate Tectonics Plate Movements EARTH MATERIALS Rock forming Minerals Igneous Rocks Sedimentary Rocks Metamorphic Rocks Common Rocks in the Field For anyone interested in learning geologic field and lab skills **El-Hi Textbooks in Print**, 1984 **The Secrets of College Success** Lynn F. Jacobs, Jeremy S. Hyman, 2019-03-11 Are you among the 22 million students now enrolled in college Or a high school student thinking of joining them shortly Or perhaps a parent of a college bound junior or senior Then this book is just for you Written by college professors and successfully used by tens of thousands of students The Secrets of College Success combines easy to use tips techniques and strategies with insider information that few professors are willing to reveal The over 800 tips in this book will show you how to pick courses and choose a major manage your time and develop college level study skills get good grades and manage the core requirements get motivated and avoid stress interact effectively with the professor or TA prepare for a productive and lucrative career New to this third edition are high value tips about undergraduate and collaborative research summer internships staying safer on campus diversity and inclusion disabilities and accommodations with special tips for international students at US colleges Winner of the 2010 USA Book News Award for best book in the college category The Secrets of College Success makes a wonderful back to college or high school graduation gift or a smart investment in your own college success **Environmental Geology** Dorothy Merritts, Andrew De Wet, Kirsten Menking, 1998-12-15 Using the earth systems approach Dr Merritts and her colleagues guide readers towards an understanding of Earth's varied environments the whole Earth systems connecting them and the ramifications of natural

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