THE



FFIGURE 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 bods in order of age, with 1 the oldest. Are the bods at the surface of the upthorwn block generally older or younger than those at the surface of the downthrown block? Why?
- (7) What kind of fault is this?
- b' 3. Figure 14.12 is a block diagram showing a fault and a number of fields. The first face of this diagram is perpendicular to the strike of these features, so you can easily measure the dip of the fault and hedding planes where indicated. North is uso 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 process location for each measurement.
 - . 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.
 - 3- 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.
 - b' d. What type of fault is illustrated? He sure the correct map symbol is used to indicate dip. Put serows 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, full in the black faces on the blocks and answer the questions.
 - W 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 (articline, syncline; upright, inclined, overturned, or secumbent; plunging or non-plunging)?
 - (3) Eliustrate the position of the axual 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 axual surface intersects another surface).

Laboratory Manual For Physical Geology Answer Key

Chao Zhang

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