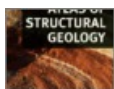




Atlas of Structural Geology

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Abstract

FIGURE 2.34 Sigma clasts, S-C structures in soft-sediment (p. 66.) | FIGURE 3.21 Along-dip segmented normal fault and fault-related fold in Jurassic sequence (p. 89.) | FIGURE 3.44 Synlithification faults in Cretaceous clastics (p. 101.) | FIGURE 4.12 Asymmetric rotating domino boudins within low-grade metamorphic carbonate sequence (p. 113.)

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Atlas of Structural Geology features a broad and inclusive range of high-quality meso- and micro-scale full-color photographs, descriptions, and captions related to the deformation of rocks and geologic structures. It is a multi-contributed, comprehensive reference that includes submissions from many of the world's leading structural geologists, making it the most thorough and comprehensive reference available to the scientific community. All types of structures are featured, including structures related to ductile and brittle shear zones, sigma- and delta-structures, mineral fish, duplexes and Haakon Fossen is Professor of Structural Geology at the University of Bergen, Norway, where he is affiliated with the Department of Earth Science, the Natural History Collections, and the Centre for Integrated Petroleum Research (CIPR). His professional career has also involved work as an exploration and production geologist/geophysicist for Statoil and periods of geologic mapping and mineral exploration in Norway. Geology 200 Geology for Environmental Scientists. Major Concepts. • Folds in rocks range from microscopic to hundreds of kilometers across. • Faults are fractures along which displacement has occurred. • Joints are fractures where there has been no displacement. • Rocks deform when applied stress exceeds rock strength. Deformation may be ductile flow or brittle fracture. Examples of horizontal and plunging fold axes. Asymmetrical Fold at Geology Field Camp in SD. Orogenic belt with complex folding. Fig. 7.15d. A plunging anticline in southern Utah. Plunging anticline, Montana. Plunging anticline, Montana. Anticline in the Keefer Sandstone of WV.