

Structural Geology Twiss Moores

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when first published structural geology broke new ground by offering a comprehensive richly illustrated survey of the evolution of

the earth's outer layers presented within the unifying context of structural and plate tectonics now this highly regarded text returns in thoroughly updated new edition designed to show students how geologists interpret deformations in the earth's crust as clues to the processes that are continually recasting the planet structural geology art download instructors can download a zip file 47 mb with the art from structural geology second edition in jpeg format [here](#)

deformation of the earth's crust happens at a multitude of scales ranging from submicroscopic to planetary tectonics explores structures and processes from regional to global differentiating itself from the material covered in most structural geology textbooks moores and twiss emphasize basic principles and methodologies of tectonics embracing the time honored perspective of using present processes to understand the past comprehensive in scope and detail coverage includes the effects of plate motions and reconstructions and the resultant structures associated with active rift transform and subduction boundaries as well as triple junctions and collision zones deformations of both the ocean basins and the continents and orogenic belts moores and twiss present tectonics as an open ended field of study in which assumptions can be challenged and interpretations changed the authors emphasize the use of models as a means of understanding observations and putting them in context to maintain a distinction between what we know from observing the earth and what we infer from interpretation

proterozoic sedimentary rocks in the sheeprock and the adjacent west tintic mountains in northcentral utah were thought to be deformed and transported along the sheeprock and pole canyon thrusts during the cretaceous to early tertiary sevier orogeny evidence from the observed stratigraphy stratigraphic separation diagrams downplunge projections of the structure large scale relationships between bedding and cleavage orientations microstructural observations and finite strain data indicate that the pole canyon and the sheeprock thrusts are the same fault the sheeprock thrust the sheeprock thrust was folded into a gentle synform and subsequently offset by motion along the indian springs fault based on the offset pattern of the folded sheeprock thrust along the indian springs fault and multiple slickenlines on the indian springs fault two components of motion are recognized a dextral strike slip component and a dip slip component of motion where the southern block is downthrown the relative age between the two components is not clear

the franciscan subduction complex formed a long lived accretionary wedge of late jurassic through oligocene age that fringed the western edge of the north american cordillera this volume summarizes absolute finite strain data from the franciscan subduction complex and brittle strain data from important faults in and above this complex because the franciscan is generally considered a prototypical sediment rich subduction complex its tectonic evolution is important for understanding convergent plate margins and the results outlined in this volume may have broad implications for other subduction zone settings pub desc

the tripartite organisation of previous editions has been modified to include discussion of morphology and classification the final two chapters have been expanded to give examples of geological structures in ancient orogenic belts

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