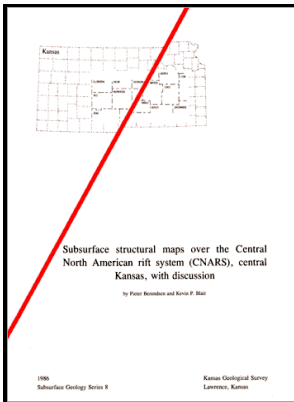


# Structural geology of North America

## Harper & Row - Details



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This edition was published in 1962



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### Structural geology of North America. (eBook, 1962) [styleguide.expo.io]

As displacement accumulates on the boundary fault, the basin deepens through time. The rocks of the Superior Upland are mostly metamorphic rocks and overlying rocks covered by a thin veneer of glacial deposits left behind when glaciers melted at the end of the Ice Age. Sediment collects in the adjacent valleys, in some places burying the bedrock under thousands of feet of rock debris.

### Category:Geology of North America

Brittle deformation takes place in the shallow crust, and ductile deformation takes place in the deeper crust, where temperatures and pressures are higher.

### Structural geology of North America

In the south, it extends under the , but is covered by sediments. Chapter 10: Faults and Shear Zones Fault Anatomy Anderson's Classification Recognizing Faults ESSAY: Seismic Risk Associated with Tectonic Structures Shear Zones Shear-Sense Indicators Composite Foliations Strain In Ductile Shear Zones Brittle Shear Zones ESSAY: Existence and Displacement Sense of Large Faults Chapter 11: Fault Mechanics Anderson's Mechanics and Fundamental Assumptions Anderson's Fault Types Role of Fluids Frictional Sliding Mechanisms Movement Mechanisms Shear Frictional Heating In Fault Zones Reality of Fault Mechanics ESSAY: Artificial Earthquakes Chapter 12: Thrust Faults Nature of Thrust Faults Detachment Within a Sedimentary Sequence Propagation and Termination of Thrusts Features Produced by Erosion ESSAY: Debate About Thrust Faults Crystalline Thrusts ESSAY: Gravity Model Foldbelt Cross-Section Construction and the Room Problem Thrust Mechanics Mechanics of Crystalline Thrusts Chapter 13: Strike-Slip Faults Properties and Geometry Tectonic Setting of Strike-Slip Faulting Geometry Related to Other Fault Types Terminations of Strike-Slip Faults Releasing and Restraining Bends Transtension And Transpression Transforms Mechanics of Strike-Slip Faulting ESSAY: Rigid Indenters and Escape Tectonics Chapter 14: Normal Faults Properties and Geometry Environments and Mechanics ESSAY: Inverted Faults and Tectonic Inheritance PART 4: FOLDS AND FOLDING Chapter 15: Anatomy of Folds Descriptive Anatomy of Folds ESSAY: Gravity-Driven Soft Sediment Folds and Faults Folds at Map and Cross Section Scale Fold Classifications ESSAY: Folds and the Development of the Petroleum Industry Chapter 16: Fold Mechanics Fold Mechanisms and Accompanying Phenomena Deformation Mechanisms and Strain Discussion ESSAY: A Tale of Two Folds: Deciphering the Fold Mechanisms of Two Small Folds Chapter 17: Complex Folds Occurrence and Recognition Superposed Folds and Fold Interference Patterns Recognition of Multiple Fold Phases Noncylindrical And Sheath Folds Formation of Complex Folds Mechanical Implications of Complex Folding ESSAY: The Value of

Rosetta Stones PART 5: FABRICS AND STRUCTURAL ANALYSIS Chapter 18: Cleavage and Foliations Definitions Cleavage-Bedding Relationships Cleavage Refraction Mechanics of Slaty Cleavage Formation ESSAY: Early Ideas on the Origin of Slaty Cleavage Crenulation Cleavage Cleavage Fans and Transecting Cleavages Transposition ESSAY: Cleavage Formation and the Identification of Elephants Chapter 19: Linear Structures Definitions Lineations as Flow and Transport Indicators Folds and Lineations Folded Lineations Interpretation of Linear Structures ESSAY: Pitfalls in Interpreting Linear Structures Chapter 20: Structural Geology of Plutons The Nature of Magma Distinguishing Magmatic from Solid-State Tectonic Structures The Enigma of Tabular Pluton Emplacement Emplacement of Stocks and Batholiths ESSAY: A Tale of Two Plutons Chapter 21: Structural Analysis Cross-Section Analysis Deformation Plan in an Orogen Structural Analysis Procedures Structural Analysis in Foreland Fold-Thrust Belts FFTBs Structural Analysis of Multiply Deformed Rocks in the Cores Of Orogens ESSAY: Historical Development of Structural Analysis Methods in Metamorphic Rocks Structural Analysis of Multiply Deformed and Transposed Rocks ESSAY: Structural Analysis at Woodall Shoals Analysis of Salt Structures Structural Analysis in Continental Interiors Structural Analysis in Seismically Active Regions-Insight into Paleoseismology PART 6: APPENDICES Appendix 1: Structural Measurements and Observations Directional Reference Frame and Location Orientation Of Planes: Strike and Dip Orientation of Lines: Trend and Plunge; Rake Recording Data Appendix 2: Stereographic Projections and Fabric Diagrams How To Begin Plotting Manually Plotting Planar Structures Plotting Linear Structures Locating Fold Axes Using Equal-Area Plots: Beta And Pi Diagrams Contouring Data Appendix 3: Structural Cross Sections-Methods for Cross-Section Construction Introduction Rules of Cross-Section Construction Editorial Tips for Constructing Cross Sections Taking Cross Sections to the Next Level-Cross-Section Balancing Appendix 4: Woodall Shoals Fabric Data Glossary References Cited Index We have identified that you are visiting this website from Ukraine, a country which this website does not serve.

### **Category:Geology of North America**

Modern regional structure is being investigated using and reflection in three dimensions, providing unrivaled images of the Earth's interior, its faults and the deep crust.

### **Structural Geology of North America**

Sediment supply determines how much of that basin capacity is filled and whether or not lake systems are possible Figure 3. The cores of the mountain ranges are in most places formed of pieces of continental crust that are over one billion years old.

### **Structural Geology I**

The Gorda platelet split away between 18 and 5 million years ago and continues to sink beneath North America. The Appalachians started to uplift, while the Ouachita and Ozarks did not. .

### **Structural geology of North America. (eBook, 1962) [styleguide.expo.io]**

By about 300 million years ago Period Africa was approaching North American craton. Thus, under these conditions, climate is a relatively unimportant control on lake depth.

### **Structural geology of North America**

This includes the , the , and the. The diversity of the landscapes of the United States can be easily seen on the shaded relief image to the right. The extension of this region has occurred both regionally and locally in events beginning in the Jurassic; however, most extension was localized until the mid.

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