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# Processes in Structural Geology and Tectonics

Ben van der Pluijm - University of Michigan  
Stephen Marshak - University of Illinois

ISBN 978-1-5323-0282-4

This online textbook combines fundamentals, observations and applications into a process-oriented approach to learning about structural geology and tectonics. Maintaining the breezy writing style of *Earth Structure*, the approach differs from this and other offerings by focusing on integration of content, and low pricing. The material starts with examination of the behavior and properties of the upper crust, dominated by brittle structures and elasticity, followed by considering a lower crust and upper mantle, deforming primarily by plastic processes; lastly, we examine structural characteristics of tectonic settings.

## **Block I**

1. Geologic Structures and Deformation Regimes
2. Force and Stress
3. The Frictional Regime
4. Joints and Veins
5. Faults and Faulting

## **Block II**

6. Deformation and Strain

7. The Plastic Regime
8. Folds and Folding
9. Fabrics and Fabric Elements
10. The Lithosphere

## **Block III**

11. Plate Tectonics
12. Extensional Tectonics
13. Contractional Tectonics
14. Wrench Tectonics

Each Unit consists of a Chapter and Supplementary Materials. The online text offers a highlighting search function, color figures, a language translation function and PowerPoint lecture presentations. The layout is optimized for laptop and handheld devices, and for various types of annotation.

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