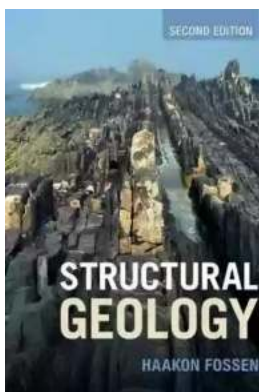


Structural Geology Haakon Fossen - Unraveling the Secrets of the Earth

Structural geology is a fascinating field that focuses on understanding the deformation and tectonic processes that shape the Earth's crust. One prominent figure in this field is Haakon Fossen, a renowned geologist who has made significant contributions to our understanding of structural geology.

Haakon Fossen is a Norwegian geologist and professor at the University of Bergen in Norway. He has spent decades studying various aspects of structural geology, including rock mechanics, tectonics, and geological mapping. His research has provided valuable insights into the forces that shape our planet.

One of Fossen's notable contributions is his work on shear zones, which are areas where rocks have been subjected to intense strain. Shear zones play a crucial role in the formation of mountain belts and other geological features. Fossen's research has helped unravel the complex processes that occur within shear zones, shedding light on their formation and evolution.



Structural Geology

by Haakon Fossen(1st Edition, Kindle Edition)

★★★★☆ 4.5 out of 5

Language : English

File size : 136407 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 480 pages



Through his research, Fossen has developed innovative methods to analyze and interpret geological structures. He has authored several widely acclaimed books on structural geology, including the popular textbook "Structural Geology" which is used by students and professionals worldwide. Fossen's books provide comprehensive and accessible explanations of complex concepts, making them invaluable resources for anyone interested in structural geology.

In addition to his research and writing, Fossen has also been instrumental in training the next generation of geologists. He has supervised numerous doctoral and master's students, guiding them in their research and fostering a passion for structural geology. Many of his former students have gone on to become successful researchers and educators in their own right.

One of the reasons for Fossen's success is his ability to bridge the gap between theoretical knowledge and its practical application. He has conducted extensive fieldwork in various parts of the world, including the Norwegian Caledonides, the Canadian Arctic, and the Rocky Mountains in the United States. This hands-on experience has allowed him to gain a deeper understanding of geological structures and their implications.

Fossen's research has also had practical implications beyond the academic world. His work on rock mechanics and faulting has contributed to the field of engineering geology, helping engineers and geotechnical professionals understand the behavior of rocks and their stability. This knowledge is crucial for the safe construction of infrastructure such as tunnels, dams, and buildings.

Furthermore, Fossen's research has shed light on the evolution of sedimentary basins, which are important sources of oil and gas. Understanding the structural characteristics of these basins is essential for the exploration and extraction of

hydrocarbons. Fossen's contributions have thus played a key role in the field of petroleum geology.

Overall, Haakon Fossen's work has made significant contributions to the field of structural geology. His research has deepened our understanding of geological processes and their impact on the Earth's crust. By combining theoretical knowledge with practical fieldwork, Fossen has provided valuable insights that have practical applications in engineering geology and petroleum exploration.

Whether you are a student, a professional in the field, or simply have an interest in geology, exploring Fossen's work is an enriching experience. His books and research papers will expand your knowledge and spark your curiosity about the wonders of structural geology.

So, if you are ready to unravel the secrets of the Earth, dive into the world of Haakon Fossen's structural geology. You will be amazed by the complexity and beauty of the forces that shape our planet.



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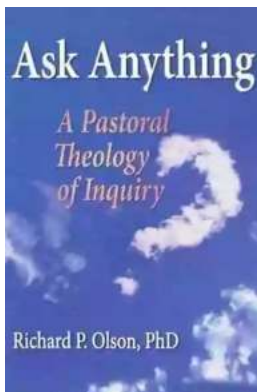
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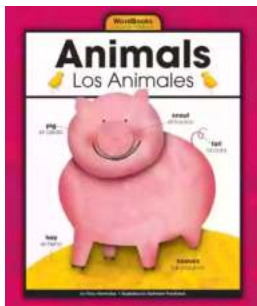


Lavishly illustrated in color, this textbook takes an applied approach to introduce undergraduate students to the basic principles of structural geology. The book provides unique links to industry applications in the upper crust, including petroleum and groundwater geology, which highlight the importance of structural geology in exploration and exploitation of petroleum and water resources. Topics range from faults and fractures forming near the surface to shear zones and folds of the deep crust. Students are engaged through examples and parallels drawn from practical everyday situations, enabling them to connect theory with practice. Containing numerous end-of-chapter problems, e-learning modules, and with stunning field photos and illustrations, this book provides the ultimate learning experience for all students of structural geology.



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