



# Structural Geology

By Haakon Fossen

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## Structural Geology By Haakon Fossen

This market-leading textbook has been fully updated in response to extensive user feedback. It includes a new chapter on joints and veins, additional examples from around the world, stunning new field photos, and extended online resources with new animations and exercises. The book's practical emphasis, hugely popular in the first edition, features applications in the upper crust, including petroleum and groundwater geology, highlighting the importance of structural geology in exploration and exploitation of petroleum and water resources. Carefully designed full-colour illustrations work closely with the text to support student learning, and are supplemented with high-quality photos from around the world. Examples and parallels drawn from practical everyday situations engage students, and end-of chapter review questions help them to check their understanding. Updated e-learning modules are available online ([www.cambridge.org/fossen2e](http://www.cambridge.org/fossen2e)) and further reinforce key topics using summaries, innovative animations to bring concepts to life, and additional examples and figures.

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### Editorial Review

#### Review

"This new edition of Structural Geology has filled in a few gaps in the excellent first edition and the author and publishers are to be congratulated on their efforts to produce a really up-to-date text in a most attractive format."

John Ramsay, ETH Zürich

"This second edition has an impressive number of updates and improvements. Numerous color photographs and figures clearly illustrate concepts, while showing the inherent beauty of structures in the field. This is a book that cannot help but inspire students."

Frederick W. Vollmer, State University of New York, New Paltz

"This is the best textbook in this field of the past decade. Both the book and the accompanying online resources have been extended with new topics and the animated e-modules are a fantastic extra teaching resource."

Roger Soliva, Université Montpellier II

#### Review of previous edition:

"Gorgeous. Nothing less. Everyone in need of structural geology - and that's quite a few of us - will certainly find this book very useful. There is a good balance between text and figures, and the figures are very good, be it the photos, maps, graphics or principle sketches. It is simply a pleasure to read this book. Seldom have we seen such a user-friendly textbook."

GEO

#### Review of previous edition:

"... Fossen is to be applauded for crafting a unique, high-caliber, and accessible undergraduate textbook on structural geology ... beautifully illustrated, with excellent original color diagrams and with impressive color field photographs that are all keyed to locations and placed into geologic context ... This book will likely get a lot of use; it is well written and priced right ... an excellent, accessible introductory structural geology text that is admirably well illustrated and well written. It should prove to be a valuable resource for students and instructors alike."

Eos, Transactions, American Geophysical Union

#### Review of previous edition:

"Once in a while, an extraordinarily superior book appears in the midst of other good books on a subject. Without a doubt, this is the case with this introductory structural geology work by Fossen. Most outstanding, the book provides a balance between soft rock and hard rock, discusses the field's relevance to basic and applied applications, and includes unparalleled illustrations and photos that are critical for instruction and understanding ... It is the most student- and instructor-friendly work this reviewer has seen. Essential."

Choice

#### Review of previous edition:

"The illustrations are plentiful and outstanding in multiple colors. Very seldom can one buy a book of this quality ..."

Richard Jackson, Environmental and Engineering Geoscience

#### Review of previous edition:

"Lavishly illustrated in color, this textbook takes an applied approach to introduce undergraduate students to the basic principles of structural geology ... 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."

The Eggs EGU Newsletter ([the-eggs.org](http://the-eggs.org))

#### Review of previous edition:

"... the structural geology text that I have long been waiting for ... this text truly shows the application of structural geology to real life academic and industry problems. It will go straight onto my syllabus as the required text."

Bruce Trudgill, Colorado School of Mines

#### Review of previous edition:

"Evaluate it? ... I've already put a change order into our bookstore to change to it for my Structure class next Fall! It's awesome."

Terry Naumann, University of Alaska

#### Review of previous edition:

"If you only buy one structural geology textbook - this is the one to get. It's both theoretical and practical ... with excellent illustrations and thought-provoking examples."

Rob Butler, University of Aberdeen

#### About the Author

Haakon Fossen is Professor of Structural Geology at the University of Bergen, Norway, where he is affiliated with the Department of Earth Science and the Natural History Collections. His professional career has involved work as an exploration and production geologist/geophysicist for Statoil and as a Professor at the University of Bergen (1996 to present), in addition to periods of geologic mapping and mineral exploration in Norway. His research ranges from hard to soft rocks and includes studies of folds, shear zones, formation and collapse of orogenic belts, numerical modelling of deformation (transpression), the evolution of rifts, and studies of deformed porous sandstones. He has conducted extensive field work in various parts of the world, notably Norway, the Western United States, Sinai, and Brazil, and his research is based on field mapping, microscopy, physical and numerical modelling, geochronology, and seismic interpretation. Professor Fossen has been involved in editing several international geology journals, has authored over 100 scientific publications, and has written two other books and several book chapters. He holds the first Nordic Geoscientist Award and the Outstanding Paper Award (together with Basil Tikoff) of the Structural Geology and Tectonics Division of the Geological Society of America, of which he is also a Fellow. He has taught undergraduate structural geology courses and graduate and industry structural geology field courses for over twenty years and has a keen interest in developing electronic teaching resources to aid student visualization and understanding of geological structures.

## Users Review

### From reader reviews:

#### Samuel Rascon:

The book Structural Geology give you a sense of feeling enjoy for your spare time. You may use to make your capable more increase. Book can to be your best friend when you getting stress or having big problem along with your subject. If you can make studying a book Structural Geology to be your habit, you can get a

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### **Genia Vanderford:**

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### **Gertrude Ponder:**

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