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**Presents a comprehensive
and up-to-date account**

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of the fundamental
aspects of structural
geology, emphasising
both classical concepts
and modern developments.
A detailed account of
the techniques of

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geometrical analysis is provided, giving a sound background to principles of geological deformation and in-depth analysis of mechanisms of formation of

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geological structures.

Many new features are

included such as

detailed discussions on

rotation of rigid

inclusions and passive

markers, boudinage

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(including chocolate
tablet boudins,
foliation boudins and
shear fracture boudins),
structural implications
of basement-cover
relations and time-

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relation between
crystallation and
deformation. The book
presents the methods of
structural analysis from
microscopic to map
scale, describes modern

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techniques used in field
and laboratory and
offers a balanced
picture of modern
structural geology as it
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rapid pace in recent

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years. Evolution of
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structural geology from
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scale of orogenic belts
and from the brittle to
the ductile field,
provides an overview of
newly emerging concepts
in a single volume. The
book covers a wide range

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of advances in such
broad fields as
hydraulic fractures,
normal faults,
overthrusts, ductile
shear zones, rock
fabrics, folds,

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superposed folds and
basement structures.

Structural geology
includes features of and
overlaps with facets of
geomorphology,
metamorphism and

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geotechnical studies. By studying the three dimensional structure of rocks and regions, inferences on tectonic history, past geological environments and

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deformation events can be made. These can be fixed in time using stratigraphical controls as well as geochronology, to determine when the

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**structural features
formed. This book
provides leading-edge
research on this field
from around the world.
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is a celebration of**

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research into the
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of Rocks to mark the
50th anniversary of the
publication of the
seminal textbook by J.
G. Ramsay. Folding and

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Fracturing of Rocks
summarised the key
structural geology
concepts of the time.
Through his numerical
and geometric focus John
pioneered and provided

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solutions to
understanding the
processes leading to the
folding and fracturing
of rocks. His strong
belief that numerical
and geometric solutions,

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to understanding crustal processes, should be tested against field examples added weight and clarity to his work. The basic ideas and solutions presented in

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the text are as relevant
now as they were 50
years ago, and this
collection of papers
celebrates John's
contribution to
structural geology. The

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papers explore the
lasting impact of John
and his work, they
present case studies and
a modern understanding
of the process
documented in the

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of Rocks.**

**Analysis of Geological
Structures**

**Rock Fractures in
Geological Processes**

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**An Introduction to
Structural Geology and
Tectonics**

**An Introduction to
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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

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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

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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) and further reinforce key topics using

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summaries, innovative animations to bring concepts to life, and additional examples and figures. This book sets out the basic materials science needed for understanding the plastic deformation of rocks and minerals. Although at atmospheric pressure

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or at relatively low environmental pressures, these materials tend to be brittle, that is, to fracture with little prior plastic deformation when non-hydrostatically stressed, they can undergo substantial permanent strain when stressed under environmental conditions of high

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confining pressure and high temperature, such as occur geologically in the Earth's crust and upper mantle. Thus the plastic deformation of rocks and minerals is of fundamental interest in structural geology and geodynamics. In mountain-building

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processes and during convective stirring in the Earth's mantle, rocks can undergo very large amounts of plastic flow, accompanied by substantial changes in microstructure. These changes in microstructure remain in the rocks as evidence of the past

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deformation history. There are a number of types of physical processes whereby rock and minerals can undergo deformation under geological conditions. The physics of these processes is set out in this book.

Physicists attempt to reduce

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natural phenomena to their essential dimensions by means of simplification and approximation and to account for them by defining natural laws. Paradoxically, whilst there is a critical need in geology to reduce the overwhelming field information to its essentials, it

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often remains in an over-descriptive state. This prudent attitude of geologists is dictated by the nature of the subjects being considered, as it is often difficult to derive the significant parameters from the raw data. It also follows from the way that geolo

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gical work is carried out.

Geologists proceed, as in a police investigation, by trying to reconstruct past conditions and events from an analysis of the features preserved in rocks. In physics all knowledge is based on experiment but in the Earth

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Sciences experimental evidence is of very limited scope and is difficult to interpret. The geologist's cautious approach in accepting evidence gained by modelling and quantification is sometimes questionable when it is taken too far. It shuts out potentially fruitful

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**lines of advance; for instance when
refusing order of magnitude
calculations, it risks being drowned
in anthropomorphic speculation.
Happily nowadays, many more
studies tend to separate and order
the significant facts and are carried
out with numerical constraints,**

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which although they are approximate in nature, limit the range of hypotheses and thus give rise to new models.

Relates the physical and geometric elegance of geologic structures within the Earth's crust and the ways in which these structures

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reflect the nature and origin of crystal deformation through time. The main thrust is on applications in regional tectonics, exploration geology, active tectonics and geohydrology. Techniques, experiments, and calculations are described in detail, with the

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purpose of offering active participation and discovery through laboratory and field work.

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Integration
Earth Structures
Kinematics, Dynamics, and**

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It is a multicontributed,
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that includes submissions
from many of the world's
leading structural
geologists, making it one*

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*brittle shear zones, sigma
and delta structures,
mineral fish, duplexes and
trapezoids, shear-related
folds, and flanking
structures in the
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broad range of
morphological variations
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*researchers in developing
mathematical and analogue
models on the peculiarity
and uniqueness of the
world's most iconic
structures*

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that support students in
tackling challenging two-
and three-dimensional
problems. Numerous
exercises encourage*

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techniques, and
demonstrate how field
observations can be
converted into useful
information about
geological structures and*

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structures, this book emphasises mechanical principles and the way in which they can be used to understand how and why a wide range of geological structures develop. Structures on all scales are considered but the emphasis of the book is on those that can be seen on the scale of hand specimen or outcrop.

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Drawing on their considerable teaching experience the authors present a coherent and lucid analysis of geological structures which will be welcomed by a wide variety of earth scientists.

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Metamorphic Rocks and Their
Geodynamic Significance

Fundamentals of Structural Geology

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Structural Geology: Fundamentals and
Modern Developments

Geologic Fracture Mechanics

Structural geology is the study of the three-dimensional distribution of rock units with respect to their deformational histories. The primary

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goal of structural geology is to use measurements of present-day rock geometries to uncover information about the history of deformation (strain) in the rocks, and ultimately, to understand the stress field that resulted in the observed strain and

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geometries. This understanding of the dynamics of the stress field can be linked to important events in the regional geologic past; a common goal is to understand the structural evolution of a particular area with respect to regionally widespread

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The exploration and extraction of the earth's resources are key issues in global industrial development. In the 21st century, emphasis has

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increasingly being placed on geo-engineering safety, engineering accountability and sustainability. With focus on rock engineering projects, Structural Geology and Rock Engineering uses case studies and an integrated engineering

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approach to provide an understanding of projects constructed on or in rock masses. Based on Professors Cosgrove and Hudson's university teaching at Imperial College London, as well as relevant short course presentations,

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it explains the processes required for engineering modelling, design and construction. The first half of the book provides step-by-step presentations of the principles of structural geology and rock mechanics with special emphasis on

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the integration between the two subjects. The second half of the book turns principles into practice. A wealth of practical engineering examples are presented, including evaluations of bridge foundations, quarries, dams, opencast coal

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Introduction to geologic fracture mechanics covering geologic structural discontinuities from theoretical and field-based perspectives.

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Structural Geology is a groundbreaking reference that introduces you to the concepts of nonlinear solid mechanics and non-equilibrium thermodynamics in metamorphic geology, offering a fresh perspective on rock

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structure and its potential for new interpretations of geological evolution. This book stands alone in unifying deformation and metamorphism and the development of the mineralogical fabrics and the structures that

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we see in the field. This reflects the thermodynamics of systems not at equilibrium within the framework of modern nonlinear solid mechanics. The thermodynamic approach enables the various mechanical,

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thermal, hydrological and chemical processes to be rigorously coupled through the second law of thermodynamics, invariably leading to nonlinear behavior. The book also differs from others in emphasizing the

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geology by discussing the nonlinear processes that operate during the deformation and metamorphism of rocks in the Earth's crust, the book's concepts help geoscientists and graduate-level students

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understand how these processes control or influence the structures and metamorphic fabrics—providing applications in hydrocarbon exploration, ore mineral exploration, and architectural engineering.

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***reinforce key concepts and
underscore major advances in
structural geology
From metamorphism to
metamorphosis, there is only a
shade of a nuance. Because me-
morphic rocks are not only what***

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they are, but also what they were, and they tell of what happened in between. What must be discovered: how to recognize in the butterfly, the caterpillar that was, or in the caterpillar the butterfly that will be? And how to

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***describe the metamorphosis,
excuse me, metamorphism
which leads from one to the
other? It is to this engaging
history, this marvelous tale,
written progressively over time,
which Jacques Kornprobst leads***

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us. If the sedimentary and magmatic rocks have been the object of reflection for a long time, for which a contradiction was established in the century in the confrontation between the Neptunism of Werner for whom

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***everything came from the sea,
and the P- tonism of Hutton who
derived all rocks from the interior
of the earth, the “crystalline
schists” as they were called, and
as we call them today for
simplicity, appear most ambi-***

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ous: they had the crystals of rocks of endogenous origin and appeared to have the stratification of exogenous rocks with which one confused the schistosity. These crystalline schists are in some ways the

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bats of the rock kingdom.

***The book includes new material,
in particular examples of 3-D
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***aspects of thegeologic
structures exposed within this
quadrangle and ultimatelyto
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The Second Edition also benefits
from new artwork that clearly

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predecessors. It is based on laboratory and field experience of both authors, with a focus towards hard rocks and magmatic rocks from both the continental crust worldwide and the mantle, principally from the Oman ophiolites.

Rock fractures control many of

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Earth's dynamic processes, including plate-boundary development, tectonic earthquakes, volcanic eruptions, and fluid transport in the crust. An understanding of rock fractures is also essential for effective exploitation of natural resources such as ground water,

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geothermal water, and petroleum. This book combines results from fracture mechanics, materials science, rock mechanics, structural geology, hydrogeology, and fluid mechanics to explore and explain fracture processes and fluid transport in the crust. Basic concepts

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are developed from first principles and illustrated with worked examples linking models of geological processes to real field observations and measurements. Many additional examples and exercises are provided online, allowing readers to practise formulating and quantitative testing

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of models. Rock Fractures in Geological Processes is designed for courses at the advanced undergraduate and graduate level but also forms a vital resource for researchers and industry professionals concerned with fractures and fluid transport in the

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Earth's crust.

State-of-the-art analysis of geological structures has become increasingly quantitative but traditionally, graphical methods are used in teaching. This innovative lab book provides a unified methodology for problem-solving in structural geology

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using linear algebra and computation. Assuming only limited mathematical training, the book begins with classic orientation problems and progresses to more fundamental topics of stress, strain and error propagation. It introduces linear algebra methods as the

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foundation for understanding vectors and tensors, and demonstrates the application of geometry and kinematics in geoscience without requiring students to take a supplementary mathematics course. All algorithms are illustrated with a suite of online MATLAB functions,

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allowing users to modify the code to solve their own structural problems. Containing 20 worked examples and over 60 exercises, this is the ideal lab book for advanced undergraduates or beginning graduate students. It will also provide professional structural geologists with a valuable

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reference and refresher for
calculations.

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Geology

Structural Geology and Rock
Engineering

Principles, Concepts, and Problems

Studyguide for Structural Geology of

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H., ISBN 9780471526216

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application of
structural geology in
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at all scales, from
plate-wide screening of
new exploration areas
down to fluid-flow
behaviour along
individual fractures.***

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From an industry perspective, good structural practice is essential since it feeds into the quantification and recovery of reserves and ultimately underpins

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commercial investment choices. Many of the fundamental structural principles and techniques used by industry can be traced back to the academic

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community, and this volume aims to provide insights into how structural theory translates into industry practice. Papers in this publication describe

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demonstrate applied
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topics including trap
definition, fault seal,***

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fractured reservoirs,
fluid flow and
geomechanics. Against a
background of evolving
ideas, new data types
and advancing***

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computational tools, the volume highlights the need for structural geologists to constantly re-evaluate the role they play in solving industrial challenges.

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*veins, additional
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*At a time when
'textural' evidence is
regarded as being
'obvious' (. . .) it*

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*becomes more and more
difficult to find
illustrations or even
descriptions of the
arrangements of the
various constituents of
'traumatized' rocks. It*

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*is helpful in
consequence to advise
geology students that
the study of thin
sections is not only
concerned with the
identification of their*

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***mineral content. To do
so would mean they could
not see the wood for the
trees. Accurate
identification of the
individual minerals
that form rocks is***

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fundamental in their description but the analysis of their textures and habits is also essential. Study of textural features enforces constraints

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*upon the interpretation
of the origin and
history of a rock. The
analysis of micro
textures cannot and
should never be an aim
in itself, but must be*

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*supported by
qualitative and
quantitative
correlations with
theories of
petrogenesis. The aim
here is to help the*

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***reader to bridge the gap
between his observations
of rocks under the
microscope and
petrogenetic theories.
The habits or
architectures of***

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crystals in rocks may resemble those studied by metallurgists and glass scientists. Analysis of micro textures is undergoing change engendered by

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***comparisons between manu-
factured and hence
minerals. This can be
seen from the increased
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~rowth or deformation***

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*processes at microscopic
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When author George Davis conceptualized the cover

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illustration for the first edition of Structural Geology of Rocks and Regions, he wanted to emphasize that the human adventure of learning comes from doing; and that new insight springs from careful, detailed examination of

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field relationships, viewed at all scales from rocks to regions. He asked illustrator David Fisher to combine four photos into the single painting, you see here. The geologist is enveloped by challenging structural

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relationships of folded rocks in outcrop; the curvature of back and neck, torqued as eyes and brain move closer and closer to clipboard, is the classic language of geologic mapping. When George Davis and new co-author

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Steve Reynolds contemplated the cover illustration for the second edition of Structural Geology of Rocks and Regions, they asked: "Who else is in the picture?" Stepping back, and handing David Fisher a couple of additional

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photos, the scene suddenly changed. The original geologist who had been sitting on the outcrop recording data is now up and walking around, gathering new data. A second geologist has moved into the new foreground,

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mapping and sketching a system of small-scale imbricate faults. Again, the head is torqued to handle the requirements of fine description and careful mapping. Like so many structural geologists, she seems to thrive on

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visualization of three-dimensional relationships.

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