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Structural Geology *Macmillan*

For advanced undergraduate structural geology courses.

Tectonics *Waveland Press*

Deformation of the Earth's crust happens at a multitude of scales, ranging from submicroscopic to planetary. Tectonics explores structures and processes from regional to global, differentiating itself from the material covered in most structural geology textbooks. Moores and Twiss emphasize basic principles and methodologies of tectonics, embracing the time-honored perspective of using present processes to understand the past. Comprehensive in scope and detail, coverage includes the effects of plate motions and reconstructions and the resultant

structures associated with active rift, transform, and subduction boundaries as well as triple junctions and collision zones; deformations of both the ocean basins and the continents; and orogenic belts. Moores and Twiss present tectonics as an open-ended field of study in which assumptions can be challenged and interpretations changed. The authors emphasize the use of models as a means of understanding observations and putting them in context to maintain a distinction between what we know from observing the Earth and what we infer from interpretation.

Outlines and Highlights for Structural Geology

Second Edition by Robert J. Twiss,

Eldridge M. Moores, ISBN Academic Internet Pub Incorporated

Never HIGHLIGHT a Book Again! Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompanys: 9780716749516

Atlas of Structural Geology Elsevier

Atlas of Structural Geology features a broad and inclusive range of high-quality meso- and micro-scale full-color photographs, descriptions, and captions related to the deformation of rocks and geologic structures. It is a multi-contributed, comprehensive reference

that includes submissions from many of the world's leading structural geologists, making it the most thorough and comprehensive reference available to the scientific community. All types of structures are featured, including structures related to ductile and brittle shear zones, sigma- and delta-structures, mineral fish, duplexes and trapezoids, shear related folds, and flanking structures in meso- and micro-scales. A stunning collection of the world's most beautiful and arresting geologic structures, the Atlas of Structural Geology is the ideal aid in the retention of key concepts in geology. Presents more than 250 top-quality, full-color photographs contributed by the world's most respected structural geologists Features a broad range of

morphological variations of geologic structures, making it the most up-to-date and inclusive reference of its kind Edited by a structural geologist with 14 years of experience in related research and instruction Aids researchers in developing mathematical and analogue models on the peculiarity and uniqueness of the world's most iconic structures

Structural Geology *Cambridge University Press*

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) and further reinforce key topics using

summaries, innovative animations to bring concepts to life, and additional examples and figures.

Fundamentals of Structural Geology

Cambridge University Press

A modern quantitative approach to structural geology and tectonics for advanced students and researchers.

Microtectonics *Springer Science & Business Media*

Microtectonics is the interpretation of small-scale deformation structures in rocks. They are studied by optical microscope and contain abundant information on the history and type of deformation and metamorphism in a rock and are therefore used by most geologists to obtain data for large-scale

geological interpretations. This advanced textbook contains a large number of photographs and explanatory drawings, special chapters on related techniques, a chapter on microgauges and a simple, non-mathematical treatment of continuum mechanics with practical examples. Special terms are explained in boxes. This textbook is suited for independent use during optical studies on microstructures as a reference manual and as a manual for short courses.

Geologic Fracture Mechanics
Cambridge University Press

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

Structural Geology

An Introduction to Geometrical Techniques *Cambridge University Press*

This combination of text and lab book presents an entirely different approach to structural geology. Designed for undergraduate laboratory classes, it provides a step-by-step guide for solving geometric problems arising from structural field observations. The book discusses both traditional methods and cutting-edge approaches, with emphasis given to graphical methods and visualization techniques that support students in tackling challenging two- and three-dimensional problems. Numerous exercises encourage practice in using the techniques, and demonstrate how field observations can be converted into

useful information about geological structures and the processes responsible for creating them. This updated fourth edition incorporates new material on stress, deformation, strain and flow, and the underlying mathematics of the subject. With stereonet plots and solutions to the exercises available online at www.cambridge.org/ragan, this book is a key resource for undergraduates, advanced students and researchers wanting to improve their practical skills in structural geology.

Structural Geology and Map Interpretation

Problems and Solutions in Structural Geology and Tectonics
Elsevier

Problems and Solutions in Structural Geology and Tectonics, Volume 5, in the series *Developments in Structural Geology and Tectonics*, presents students, researchers and practitioners with an all-new set of problems and solutions that structural geologists and tectonics researchers commonly face. Topics covered include ductile deformation (such as strain analyses), brittle deformation (such as rock fracturing), brittle-ductile deformation, collisional and shortening tectonics, thrust-related exercises, rift and extensional tectonics, strike slip tectonics, and cross-section balancing exercises. The book provides a how-to guide for students of structural geology and geologists working in the oil, gas and mining industries. Provides practical

solutions to industry-related issues, such as well bore stability Allows for self-study and includes background information and explanation of research and industry jargon Includes full color diagrams to explain 3D issues

Looking Into the Earth

An Introduction to Geological Geophysics *Cambridge University Press*
Comprehensively describes the principles and applications of 'global' and 'exploration' geophysics for introductory/intermediate university students.

Structural Analysis and Synthesis: A Laboratory Course in Structural Geology, Second Edition *Wiley*

This instructive, engaging, highly readable manual is intended for the laboratory portion of an undergraduate course in structural geology. Guided by students' and instructors' suggestions, Dr Stephen Rowland and his new co-author, Dr Ernest Duebendorfer, have refined various exercises for the second edition, and have added discussions of numerous topics, including axial planar foliations and the dip isogon methods of fold classification. There are also three new chapters on: balanced cross sections; deformation mechanisms, fault kinematics and microstructures; and plate tectonics.

Geological Field Techniques *John Wiley & Sons*
GEOLOGICAL FIELD TECHNIQUES The

understanding of Earth processes and environments over geological time is highly dependent upon both the experience that can only be gained through doing fieldwork, and the collection of reliable data and appropriate samples in the field. This textbook explains the main data gathering techniques used by geologists in the field and the reasons for these, with emphasis throughout on how to make effective field observations and record these in suitable formats. Equal weight is given to assembling field observations from igneous, metamorphic and sedimentary rock types. There are also substantial chapters on producing a field notebook, collecting structural information, recording fossil data and constructing geological maps. Geological

Field Techniques is designed for students, amateur enthusiasts and professionals who have a background in geology and wish to collect field data on rocks and geological features. Teaching aspects of this textbook include: step-by-step guides to essential practical skills such as using a compass-clinometer, making a geological map and drawing a field sketch; tricks of the trade, checklists, flow charts and short worked examples; over 200 illustrations of a wide range of field notes, maps and geological features; appendices with the commonly used rock description and classification diagrams; a supporting website hosted by Wiley-Blackwell is available at www.wiley.com/go/coe/geology

Rock Fractures in Geological Processes *Cambridge University Press*

Rock fractures control many of 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, 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 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 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 Earth's crust.

Structural Geology of Rocks and Regions *John Wiley & Sons*

Relates the physical and geometric elegance of geologic structures within the Earth's crust and the ways in which these structures 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 purpose of offering active participation and discovery through laboratory and field work.

Structural Geology: Fundamentals and Modern Developments *Elsevier*

Presents a comprehensive and up-to-date account of the fundamental aspects of structural geology, emphasising both classical concepts and modern developments. A detailed account of the techniques of geometrical analysis is provided, giving a sound background to principles of geological deformation and in-depth analysis of mechanisms of

formation of geological structures. Many new features are included such as detailed discussions on rotation of rigid inclusions and passive markers, boudinage (including chocolate tablet boudins, foliation boudins and shear fracture boudins), structural implications of basement-cover relations and time-relation between crystallation and deformation. The book presents the methods of structural analysis from microscopic to map scale, describes modern techniques used in field and laboratory and offers a balanced picture of modern structural geology as it emerges from combined field, experimental and theoretical studies. Hardback edition (0 080 41879 1) also available £50.00

Basic Methods of Structural Geology**Quantitative Structural Geology**

Cambridge University Press

A pioneering single-semester undergraduate textbook that balances descriptive and quantitative analysis of geological structures.

Geological Objects and Structures in 3D**Observation, Interpretation and Building of 3D Models** *CRC Press*

Geologists must be able to “read” a geological map. That means interpreting the vertical dimension through the 2D view represented on the map and at different scales. The main objective of this book is to help students during this

difficult learning process. Based on an abundant iconography (field photos, maps, cross-sections) and on basics in mathematics and mechanics, the book dissects the geometry of emblematic geological structures and objects in order to build 3D models, printable in 3D. The book is dedicated to structural geology with a particular emphasis on kinematics of faulting and folding and on salt tectonics (chapters III, IV and V). The origin of continental great unconformities and oceanic break-up unconformities is also discussed (chapter II). The audience of the book is broad and includes (under)graduate students in Earth Sciences, professors of Natural Sciences, and professional or amateur geologists.

Structural Geology Algorithms

Vectors and Tensors *Cambridge University Press*

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 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 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, 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 reference and refresher for calculations.

Foundations of Structural Geology

This highly-regarded introductory textbook has been used by many generations of students worldwide. It is specifically tailored to the requirements of first or second year geology

undergraduates.

Plate Tectonics

Continental Drift and Mountain Building *Springer Science & Business Media*

How are mountains formed? Why are there old and young mountains? Why do the shapes of South America and Africa fit so well together? Why is the Pacific surrounded by a ring of volcanoes and earthquake prone areas while the edges of the Atlantic are relatively peaceful? Frisch and Meschede and Blakey answer all these questions and more through the presentation and explanation of the geo-dynamic processes upon which the theory of continental drift is based and which have lead to the concept of plate

tectonics.

Global Tectonics *John Wiley & Sons*

The third edition of this widely acclaimed textbook provides a comprehensive introduction to all aspects of global tectonics, and includes major revisions to reflect the most significant recent advances in the field. A fully revised third edition of this highly acclaimed text written by eminent authors including one of the pioneers of plate tectonic theory. Major revisions to this new edition reflect the most significant recent advances in the field, including new and expanded chapters on Precambrian tectonics and the supercontinent cycle and the implications of plate tectonics for environmental change. Combines a

historical approach with process science to provide a careful balance between geological and geophysical material in both continental and oceanic regimes. Dedicated website available at <http://www.blackwellpublishing.com/kearey/> and <http://www.blackwellpublishing.com/kearey/a>

Stereographic Projection Techniques for Geologists and Civil Engineers *Cambridge University Press*

A straightforward introduction to stereographic projection techniques for students of geology and civil engineering.

Earth Structures

An Introduction to Structural

Geology and Tectonics

The Second Edition also benefits from new artwork that clearly illustrates complex concepts. New to the Second Edition: New Chapter: 15, "Geophysical Imaging," by Frederick Cook. Within Chapters 21 and 22, four new essays on "Regional Perspectives" discuss the European Alps, the Altai, the Appalachians, and the Cascadia Wedge. New and updated art for more informative illustration of concepts. The Second Edition now has 570 black & white figures.

Structural Geology

The Mechanics of Deforming Metamorphic Rocks *Elsevier*

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 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 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, 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 implications of this nonlinear behavior with respect to the development of the diverse, complex, even fractal, range of structures in deformed metamorphic rocks. Building on the fundamentals of structural 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 understand how these processes control or influence the structures and metamorphic fabrics—providing applications in hydrocarbon exploration, ore mineral exploration, and architectural engineering. Authored by two of the world's foremost experts in structural

geology, representing more than 70 years of experience in research and instruction. Nearly 300 figures, illustrations, working examples, and photographs reinforce key concepts and underscore major advances in structural geology.

The Techniques of Modern Structural Geology: Strain analysis

In the case of nearly all branches of science a great advance was made when accurate quantitative methods were used of more qualitative. One great advantage of this is that it necessitates more accurate thought, points out what remains to be learned, and sometimes small residual quantities, which otherwise would escape attention, indicate important facts.

An Outline of Structural Geology

John Wiley & Sons

Basement Tectonics 9

Australia and Other Regions Proceedings of the Ninth International Conference on Basement Tectonics, held in Canberra, Australia, July 1990

Springer Science & Business Media

The Ninth International Conference on Basement Tectonics was held at the Australian National University in Canberra 2-6 July 1990. The opening keynote address was given by Prof. R.W.R. Rutland, Director of the Bureau of Mineral Resources. Other keynote speakers were E.S.T. O'Driscoll, an Australian consultant, and Prof P.

Bankwitz, Central Institute for Physics of the Earth, Potsdam, GDR. Technical sessions were arranged by session conveners on the following five topics: i) The structure of the Australian craton and cover basins; ii) Basement structure of continental regions; iii) Structural patterns and mineral deposits; iv) Techniques for analysing basement structures; v) Structural patterns in oceanic crust. The arrangement of papers for this Proceedings Volume has been simplified. Part 1 deals with Australia, Part 2 with other areas and Part 3 lists the titles of all the papers read at the conference. Abstracts of these papers are available in Geological Society of Australia Abstracts No 26 and may be purchased for \$A10 from the Geological Society of Australia Office,

ANA House, 301 George Street, Sydney NSW 2000. Field trips to view aspects of the Lachlan Fold Belt and the Sydney Basin were assisted by H.J. Harrington, D. Branagan, D. Wyborn, B. Drummond and M.J. Rickwood. A longer field trip, aborted through low enrolments, was organized by H.J. Harrington with assistance from W. Preiss, N. Cook, R. Glenn, A. Grady, and P. James; this assistance is gratefully acknowledged.

The Solid Earth

An Introduction to Global Geophysics *Cambridge University Press*

A fully up-dated edition of this acclaimed undergraduate geophysics textbook.

Plate Tectonics, Ophiolites, and

Societal Significance of Geology

A Celebration of the Career of Eldridge Moores *Geological Society of America*

"This volume honors Eldridge Moores, one of the most accomplished geologists of his generation. The volume starts with a summary of Moores' achievements, along with personal dedications and memories from people who knew him. Leading off the volume's 12 chapters of original scientific contributions is Moores' last published paper that presents an example of the Historical Contingency concept, which suggested that earlier subduction history may result in supra-subduction zone geochemical signatures for some magmas formed in non-subduction environments. Other

chapters highlight the societal significance of geology, the petrogenesis of ophiolites, subduction zone processes, orogenic belt evolution, and other topics, covering the globe and intersecting with Moores' interests and influences"--

Principles of Structural Geology *Prentice Hall*

Continuous Media with Microstructure 2 *Springer*

This book presents research advances in the field of Continuous Media with Microstructure and considers the three complementary pillars of mechanical sciences: theory, research and computational simulation. It focuses on the following problems: thermodynamic and mathematical modeling of materials

with extensions of classical constitutive laws, single and multicomponent media including modern multifunctional materials, wave propagation, multiscale and multiphysics processes, phase transformations, and porous, granular and composite materials. The book presents the proceedings of the 2nd Conference on Continuous Media with Microstructure, which was held in 2015 in Łagów, Poland, in memory of Prof. Krzysztof Wilmański.

Geological Structures and Maps

A Practical Guide *Pergamon*

Petrology of Sedimentary Rocks

Cambridge University Press

Advanced textbook outlining the

physical, chemical, and biological properties of sedimentary rocks through petrographic microscopy, geochemical techniques, and field study.

Shear-sense Indicators

A Review *Geological Survey of Canada*

The critical evaluation of the kinematic significance of natural geological deformation structures, particularly referring to the determination of shear-sense, requires a high degree of familiarity with the basic concepts of flow and the influence of material properties (discontinuities, rheological layering, anisotropy) on the nature of flow at the local scale. This publication includes information on flow, followed by a critical examination of geological

deformation, structures which are commonly used as shear-sense indicators, foliations, stiff inclusions and their attendant wings, and folds and veins.

Stereographic Projection Techniques in Structural Geology

This book sets out to provide a simple introduction to the subject by means of illustrations and exercises, encouraging the student to visualise the problems concerned in three dimensions. Once an appreciation is gained of the nature of the problem, the formal solution using the projection becomes both logical and straightforward. The stereographic projection is an essential tool of the structural geologist which allows three-dimensional orientation data to be both

represented and manipulated. It provides a way of graphically displaying the data collected. This is essential for the recognition and interpretation of patterns of preferred orientation. 'This is the book all teachers of stereographic projections have been waiting for! It is 115 pages of well-presented, clearly explained, generally well-illustrated text - in short it is user-friendly.' - Episodes - Int. Geoscience Newsmagazine, April 1996

Kinematic Evolution and Structural Styles of Fold-and-thrust Belts *Geological Society of London*

Fold-and-thrust belts occur worldwide, have formed in all eras of geological time, and are widely recognized as the most common mode in which the crust

accommodates shortening. Much current research on the structure of fold-and-thrust belts is focused on structural studies of regions or individual structures and on the geometry and evolution of these regions employing kinematic, mechanical and experimental modelling. In keeping with the main trends of current research, this title is devoted to the kinematic evolution and structural styles of a number of fold-and-thrust belts formed from palaeozoic to recent times. The papers included in this book cover a broad range of different topics, from modelling approaches to

predict internal deformation of single structures, 3D reconstructions to decipher the structural evolution of groups of structures, palaeomagnetic studies of portions of fold-and-thrust belts, geometrical and kinematical aspects of Coulomb thrust wedges and structural analyses of fold-and-thrust belts to unravel their sequence of deformations--

Tectonic Evolution of Northwestern México and the Southwestern USA
Geological Society of America