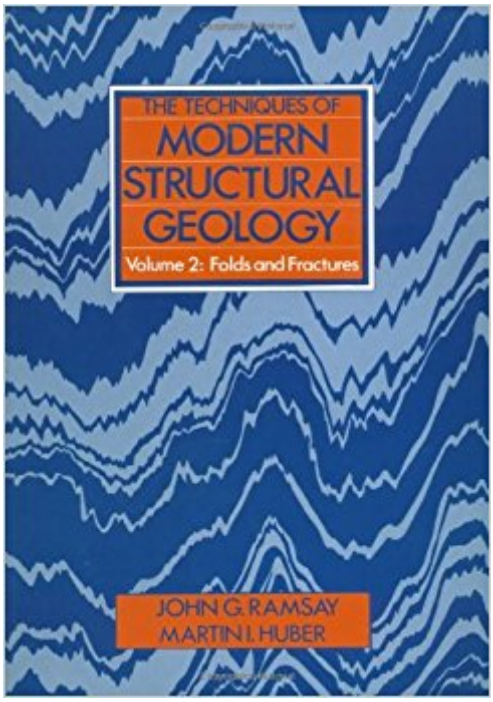
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The Techniques Of Modern Structural Geology: Folds And Fractures



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Synopsis

Following the same format as the highly successful Volume 1, Volume 2 applies the principles of deformation to the analysis of folds and fractures. There are 13 sessions, each providing 3 hours of practical work and problems. The problems are well-illustrated with photographs and drawings, and the solutions are discussed in detail. All the sessions are drawn from actual geological examples and are extensively illustrated with photographs taken in the field and with micrographs, giving students a feeling for what actually occurs in nature.

Book Information

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Customer Reviews

" Impressive features of this book are its thoughtful and meticulous compilation, the effort to use real rather than artificial examples where possible, the clarity and beauty of the plates, and the generally high standard of production. Ramsay and Huber’s book deserves to be widely used."--Geological Magazine"The book should become a basic reference for all structural geologists, especially the specialist in small-scale structures. Ã Â It could be used by graduate students or, perhaps, by well prepared senior undergraduates."--Tectonophysics"It is clear from volume 2 that this series will be the best ever produced teaching text in geology. The authors and publishers are to be congratulated. Ã Â Although several references are made to volume 1 on Strain Analysis, volume 2 stands alone and should be in great demand, not only by advanced students, but by any practicing geologist needing an update on structural geology. The problems.....give students a feel for the excitement of ongoing research. Ã Â The sessions conclude with the best review of joints I have

ever read. Ã Â For good measure , appendices give a concise outline of force and stress and an excellent minature on geological mapping. Ã Â Ã Â The illustrations and diagrams are superb throughout and in themselves constitute a valuable "atlas" of deformation structures. Ã Â Those who struggle with mathematics have little to fear, because rigorous treatment of mechanisms have been reserved for volume 3. Ã Â In conclusion, if you’re a structural expert, student, or just want to know what the deformation boys are up to, rush out and buy this book, it is excellent value."--Earth Science Reviews, 1989"Like the first volume, this one is copiously and beautifully illustrated. Ã Â The line drawings , as one has come to expect, are excellent and almost all drawn just for this book. Ã Â Nearly all the photographs are previously unpublished, and they are very good indeed. A strength is the reliance on natural examples to illustrate the principles and techniques described, in contrast to many other practical books of structural geology. Ã Â Every topic is illustrated with at least one natural example, giving the book a firm basis in "groundtruth". Ã Â The authors state clearly the assumptions of the methods they use and discuss what the sources of error are, and they stress the need for caution in applying them and interpreting the results. Ã Â ... Ã Â There is no question that the series of which this volume is a part will have a significant impact on the teaching and practice of structural geology. Ã Â One of the great virtues of the book is that it engages the reader in the subject matter, forces him or her to think about it by posing basic questions about the form and origin of structures, and then leads him or her through answers which, in many cases, leader to the reader posing further questions; Ã Â That is exactly what a good text book should do."Ã Â --Episodes, 1988"The book should be ideal for students who want to learn techniques of structural geology by themselves or for teachers who are too busy or too lazy to put together practical exercises. The illustrations are mostly new and are excellent. The first four sessions deal with geometric aspects of folds. Ã Â The approach is delightfully practical and simple, with the lack of pretentiousness that seems to mark John Ramsay’s style. Ã Â The sessions on faults is novel in some respects dealing with the basics in a very practical way. Ã Â The session on the mechanical analysis of fractures goes through the usual analyses of stress, simple elasticity, failure criteria and Mohr envelopes, but does so in a refreshingly simple way, uncluttered with excess mathematics. Ã Â There are also pleasing digressions into such subjects as fault-plane solutions, shatter cones and vein formation. Ã Â Amongst the appendices, the one on stress is straightforward, but the one on geological mapping contains many useful hints and two examples of John Ramsay’s field maps which set remarkably high standards (the originals will probably become collector’s items). Ã Â This book is very good in terms of illustrations, simple mathematical exercises, kinematics of folds and fault patterns, and practical hints for the field geologist."--Journal

of Structural Geology, 1988"Like the first volume, which dealt with analyses of largly homogeneous strains and the resulting rock fabrics, the second is a manual largely to be worked at rather than read. After an appropriate grounding in each topic, the readers are faced with a series of penetrating questions or exercises based on beautiful and original photographs of natural and some experimental structures."--Geol. FÃƒÂ¶reningens Stockholm Forhandlingar, 1988"This book could be used by graduate students or by well prepared senior undergraduates. Ã Â In any case this book should become a basic reference for all structural geologists, especially the specialist in small scale structures." --Tectonophysics, 1989

Volume 2 contains 13 sessions comprising practical work and problems. The approach is to help the student develop his own methods and to solve problems by logical thinking, rather than to rely on the routine application of a previously described and well-worn 'magic' formula. Each session starts with the formulation of a problem and the presentation of any essential background or necessary mathematical techniques. All the sessions are drawn from actual geological examples and are extensively illustrated with photographs taken in the field and with micrographs, giving the students a feeling for what occurs in nature. The problems are also well illustrated with photographs and drawings, and the solutions draw out the key features of the methods used.

This is the second of two books by Ramsay and Huber on the fundamentals of structural geology. It is a must read fro all economic geologists dealing with deformed deposits.

send it to my teacher as a gift, help me a lot. low price. the speed is so amazing Nicely weighted and sharp. Very well-made.

Another essential piece in building your structural geology book collection. Everything you needed to know about folds and faults. Occasionally goes overboard on fold and fault classification, but aids greatly in kinematic analysis of rock deformation. Great text for Advanced Structure class!

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