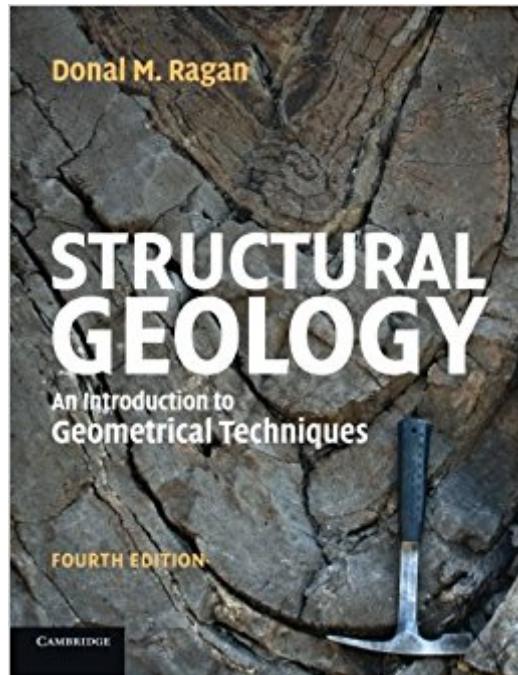




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# Structural Geology: An Introduction To Geometrical Techniques



## Synopsis

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](http://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.

## Book Information

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## Customer Reviews

'Donal Ragan's new edition of Structural Geology: An Introduction to Geometrical Techniques is a classic with legs. Retaining all of the approachability and sound advice which has welcomed and guided generations of geologists, the new edition seamlessly incorporates an even stronger quantitative foundation, resplendent with fully integrated examples and exercises. Ragan's new digital illustrations will not disappoint those who admire his clean, unique drawing style, and will illuminate complex geometrical constructs for a new era of geologists.' Professor Patrick Kennelly,

Long Island University, New York' The Ragan textbook on Structural Geology: An Introduction to Geometrical Techniques offers a fresh, up-to-date account on modern methods for analysing both brittle and ductile structures. The book is thorough and comprehensive and its advantage over many other books is that it covers the basics in an exhaustive way. It is therefore extremely well suited for undergraduate students, but also for professional Structural Geologists and Academics.'

Dr Uwe Ring, University of Canterbury, New Zealand' This excellent book deals with a multitude of practical methods for structural geologists. These methods range from those appropriate at first year undergraduate level right through to those relevant to graduate research. The various techniques are very clearly explained and are richly illustrated with clear diagrams and worked examples. The new edition represents a significant expansion of earlier ones, and contains something for all structural geologists.'

Dr Richard Lisle, Cardiff University' Like the earlier editions, Ragan's book addresses a number of core methods in structural geology, from essential elements such as the trigonometry for devising true stratigraphic thicknesses to more challenging concepts such as manipulating strain data. Along the way readers are introduced to structure contours and stereographic projection. Rigorous methods of creating block diagrams, documenting variations in 3D structure and calculating the true attitude of planes using drill hole data are also covered. There are lots of careful diagrams and the mathematics, methods and procedures are laid out stepwise. ... The methods are readily applicable to other subsurface datasets, including seismic.'

Geological Magazine

This volume, a combination of undergraduate text and lab book, provides students with a step-by-step guide to solving geometric problems in structural geology. Updated to incorporate new material on stress, deformation, strain and flow, it emphasizes the underlying mathematics and provides numerous homework exercises for which solutions are available online.

This book was very frustrating and made a somewhat hard class that much harder. On more than a few occasions our instructor had us correct the text. Other mistakes were obvious to anyone. It's a shame that you always feel iffy about the examples when the author actually does go to the trouble to do step by step explanations.

As a student, this is one of the WORST books I have ever seen used in a college classroom: 1) There are huge math errors. 2) Examples are nothing like the problems. 3) The variables are often not defined. 4) The quality of the binding is horrible. Mine fell apart after two weeks! 4) The verbiage

is not clear. He doesn't say what he thinks he is saying.

A good practical book for geologist!

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