

THE GEOLOGICAL FIELD GUIDE SERIES



THE MAPPING OF GEOLOGICAL STRUCTURES

KEN McCLAY

Mapping Of Geological Structures

George Mills Bennison



Mapping Of Geological Structures:

The Mapping of Geological Structures K. R. McClay, 2013-06-17 Detailed mapping and analysis of the structural features of rocks enable the 3D geometry of their structures to be reconstructed. The resulting evidence of the stresses and movement patterns which rocks have undergone indicates the processes by which they were formed and allows evaluation of past deformations of the earth's crust. Written to show how one actually describes measures and records rock structures such as folds and faults with the emphasis on accuracy, detail and on going interpretation throughout, this handbook gives students and enthusiasts the practical information and guidance which allows their fieldwork to become vastly more rewarding. The author is to be congratulated on producing such an excellent text. The whole range of mapping techniques that an undergraduate student will require are described and the book will still be of immense help to post graduates setting out on their research work. The book represents extremely good value and is thoroughly recommended. C. R. L. Friend, *Mineralogical Magazine*.

Mapping Geological Structures Kenneth R. McClay, 1984 [An Introduction to Geological Structures and Maps](#) George M. Bennison, Paul A. Oliver, Keith A. Moseley, 2013-11-26 [An Introduction to Geological Structures and Maps](#) is a concise and accessible textbook providing simple structural terminology and map problems which introduce geological structures. It is a perfect introduction to mapping for students of geology, engineering geology and civil engineering. Each topic is explained and illustrated by figures and exercises follow on successive maps. If students are unable to complete an exercise they can read on to obtain more specific instructions on how theory may be used to solve the problem. An appendix at the end of the book provides the solutions. This new eighth edition contains simplified introductory matter to make the subject as easy to grasp as possible. Colour photographs illustrating geological structures bring the subject to life and a new map from the British Geological Survey illustrates a real area. There is more on outcrop patterns which will help students to think in 3D and on structures and the relationship of topography to geological structure. Cliff sections have been added to reinforce the concept of apparent dip. The section on planetary geology has been more closely tied to igneous geology to aid understanding of the connection between the two. Finally a new map on economic geology has been added for the benefit of engineering students. A geological glossary helps students to understand and memorise key terms and a new colourful text design enlivens the appearance of this popular book.

3-D Structural Geology Richard H. Groshong, 2002-08-07 This is a handbook of practical techniques for making the best possible interpretation of geological structures at the map scale and for extracting the maximum amount of information from surface and subsurface maps. Quantitative methods are emphasized throughout and analytical solutions are given. Interpretation strategies are defined for GIS or CAD users yet are simple enough to be done by hand. This book will help users produce better geological maps, judge the quality of existing maps and locate and fix mapping errors.

[3-D Structural Geology](#) Richard H. Groshong, 2006-07-09 Geological structures are three dimensional yet are typically represented by and interpreted from outcrop maps and structure contour maps both of which are

curved two dimensional surfaces Maps plus serial sections called 2 D provide a closer approach to three dimensionality Computer technology now makes it possible for geological interpretations to be developed from the beginning in a fully three dimensional environment Fully 3 D geological models allow significantly better interpretations and interpretations that are much easier to share with other geologists and with the general public This book provides an overview of techniques for constructing structural interpretations in 2 D 2 D and 3 D environments for interpolating between and extrapolating beyond the control points and for validating the final interpretation The underlying philosophy is that structures are three dimensional solid bodies and that data from throughout the structure whether in 2 D or 3 D format should be integrated into an internally consistent 3 D interpretation It is assumed that most users of this book will do their work on a computer Consequently the book provides quantitative structural methods and techniques that are designed for use with spreadsheets mapping software and three dimensional computer graphics programs The book is also intended to provide the background for understanding what interpretive software for example a computer contouring program does automatically Most techniques are presented in both a traditional format appropriate for paper pencil and a pocket calculator and in quantitative format for use with spreadsheets and computer graphics or computer aided design programs

Geological Structures and Maps Richard J. Lisle, 2003-11-12 This highly illustrated student guide introduces the skills of interpreting a geological map and relating it to the morphology of the most important types of geological structure Thoroughly revised and with more international examples it is ideal for use by students with a minimum of tutorial supervision Photographs of structures are set alongside their representations on maps The maps used in exercises have been chosen to provide all of the realism of a survey map without the huge amount of data often present so that students can develop skills without becoming overwhelmed or confused In particular emphasis is placed throughout on developing the skill of three dimensional visualization so important to the geologist Successful practical guide provides a solid introduction to the subject of geological maps Fully revised edition includes more international examples to increase the breadth of your knowledge Illustrations and end of chapter questions make this an ideal tool to aid self guided study

Basic Geological Mapping John W. Barnes, Richard J. Lisle, 2013-04-03 Designed to be carried in the field this pocket sized how to book is a practical guide to basic techniques in mapping geological structures In addition to including the latest computerised developments the author provides succinct information on drawing cross sections and preparing and presenting fair copy maps and geological diagrams Contains a brief chapter on the essentials of report writing and discusses how to keep adequate field notebooks A checklist of equipment needed in the field can be found in the appendices Quote from 3rd edition provides a wealth of good advice on how to measure record and write reports of geological field observations The Naturalist

An Introduction to Geological Structures and Maps George Mills Bennison, 1973

Introduction to Geological Maps and Structures Robert Maxwell, 1982-01-01 Introduction to Geological Maps and Structures deals with the preparation of geological maps using topographic contours such as hills

valleys rock outcrop patterns faults veins rivers lakes cliffs and coasts A geological formation is a three dimensional body with a particular shape Two factors determine the accuracy of boundaries on a geological map 1 boundaries can only be drawn where there is a sharp contact between adjacent formations and 2 the ability to follow geological boundaries in the field depends on the degree of exposure from which the solid rocks tend to be hidden under a cover of soil and superficial deposits If economic interests are involved geological maps are very detailed subsurface information obtained from bore holes and mine workings can be added to surface mapping The book also describes the construction of a tectonic map usually drawn on a larger scale which shows the outcrop of lithostratigraphic units also in very large scales The book notes that no systematic methodology has yet been developed for the construction of tectonic maps The book is suitable for geologists students or scientists involved in hydrology meteorology and with general earth sciences An Introduction to Geological Structures and Maps G. M. Bennison, 1995-04-11 A concise book that leads the reader by easy stages from the simplest ideas on geological structures right through to geological mapping Each new topic is simply explained and illustrated by figures and exercises are set on succeeding maps

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