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STRUCTURAL GEOLOGY PART - 1
Structural Geology Field Techniques by Prof. T. K. Biswal, IIT Bombay Part 1/2 *How to draw Geological cross section - KINK method - Structural Geology*
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Structural Mapping Techniques and Tools. In Chapter 2 we 'find our bearings' in order to locate outcrops in the field and construct maps of geological structures. Geographic coordinates are used by the Global Positioning System (GPS) for location (see above) and the Universal Transverse Mercator (UTM) projection is used to project geographic information from Earth's curved surface onto a piece of paper.

Chapter 2 | Structural Geology

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Complete coverage of all the basic topics of structural geology.

Intended as a learning reference and an exercise manual. Part I covers basic geometric techniques and the use of equal- angle and equal-area nets. Part II addresses specialized topics written by specialists in the field. Exercises and step-by-step procedures are included.

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.

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, and stunning new field photos. Extended online resources reinforce key topics using summaries, examples, and innovative animations to bring concepts to life.

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.

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.

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