# DEVELOPMENTS IN STRUCTURAL GEOLOGY AND TECTONICS

### MAP INTERPRETATION

## for Structural Geologists

#### NARAYAN BOSE & SOUMYAJIT MUKHERJEE

The first volume in the new series Developments in Structural Geology and Tectonics, this book is a step-by-step guide presenting common problems and solutions in geological and structural map interpretation

- Features approximately 30 full-color geological or structural maps and their solutions, from basic to the most complex
- Includes content appropriate for undergraduate and graduate students and professional geoscientists alike
- Presents a self-learning guide and teaching manual with minimum instruction required

Map Interpretation for Structural Geologists exemplifies various topics, from deciphering topography using contour patterns to interpreting folds, faults, unconformities, and dykes. By solving several types of maps, this book gives readers the confidence to solve difficult geologic questions related to map interpretation in the classroom and in the field. Interpreting geological and structural maps is an inseparable part of learning structural geology in the undergraduate curriculum and postgraduate development.

Narayan Bose is a final year PhD student at the Indian Institute of Technology Bombay, where he did his MSc in Applied Geology (2013). He received BSc (Honors) in Geology from the Presidency College (Kolkata) in 2011 and secured second rank in this program under the University of Calcutta. He is specialized in structural geological fieldworks and microstructural studies especially related to ductile and brittle shear zones. As a Teaching Assistant, he has been conducting structural geology fieldworks and practical classes for the Master's programs in Applied Geology, Applied Geophysics, and Petroleum Geoscience. He has also reviewed several manuscripts submitted in international journals, and has published a paper in the International Journal of Earth Sciences.

**Soumyajit Mukherjee** is a Professor in the Department of Earth Sciences at the Indian Institute of Technology Bombay, India. He received his PhD degree in Geology and M.Tech. in Applied Geology from IIT, Roorkee, in 2007 and 2002, respectively. He did his BSc with Geology (Honors) from Presidency College (Kolkata) in 1999. He was a recipient of the Hutchison Young Scientist Award from IUGS in 2004. He served as the Guest Researcher at the Hans Ramberg Tectonic Lab, Uppsala University during 2005–06. Dr. Mukherjee, a structural geologist and tectonician, has been performing fieldwork, microstructural studies, and analog- and analytical modeling, mainly on ductile shear kinematics and collisional tectonics. His research and editorial experience spans 15 years and so far he has authored and (co)edited 12 books. He presently serves as an Associate Editor of the International Journal of Earth Sciences and the Series Editor for the Developments in Structural Geology and Tectonics.



