



## Structural Analysis and Synthesis: A Laboratory Course in Structural Geology

*By Stephen M. Rowland, Ernest M. Duebendorfer, Ilsa M. Schiefelbein*

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### **Structural Analysis and Synthesis: A Laboratory Course in Structural Geology** By Stephen M. Rowland, Ernest M. Duebendorfer, Ilsa M. Schiefelbein

This widely used, highly readable introduction to structural analysis is specifically designed to support the laboratory work of undergraduates in structural geology courses.

The new third edition includes:

- New and amended exercises and redrafted figures to improve clarity
- A single fold-out map of the Bree Creek Quadrangle – a mythical site used to help students analyze various aspects of the geologic structures exposed within this quadrangle and ultimately to develop a grand synthesis
- A user-friendly spiral binding ideal for work in the lab or out in the field

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### Editorial Review

#### Review

Praise for Rowlands's *Structural Analysis and Synthesis* 1e:

"Laboratory exercises using progressively more complicated geologic maps of mythical terrains have been a feature of my introductory structural geology course for years. I was, therefore, quite intrigued by Stephen Rowland's laboratory manual that takes this strategy a step further by progressively analysing a single geologic terrain...[I] appreciate the manual's clearly organized and balanced presentation of topics and its exercises that involved the progressive analysis and written synthesis of a single map area. The text has been popular with my students. I would recommend it to any instructor who emphasizes the interpretation of geologic maps in their introductory structural geology course." *Journal of Structural Geology*

#### From the Back Cover

This widely used, highly readable introduction to structural analysis is specifically designed to support the laboratory work of undergraduates in structural geology courses. Throughout the book, a geologic map from a mythical site, the Bree Creek Quadrangle, is used to help students analyze various aspects of the geologic structures exposed within this quadrangle, and ultimately to combine these analyzes into a grand synthesis.

Guided by students' and instructors' suggestions, the authors have refined several exercises and added new ones for this third edition. In addition, every figure has been redrafted to improve clarity, and the Bree Creek Quadrangle map has been compiled onto a single fold-out sheet. An instructor's manual is available on request from the publisher to assist the laboratory instructor in the use of the book.

#### About the Author

**Stephen M. Rowland** is a Professor of Geology at the University of Nevada, Las Vegas. He began teaching a structural geology laboratory course as a PhD student at the University of California, Santa Cruz. The Bree Creek map and the core exercises in this book evolved from field exercises in the Santa Cruz Mountains of California.

**Ernest M. Duebendorfer** is a Professor of Geology at Northern Arizona University in Flagstaff. His research focuses on Proterozoic accretionary tectonics and Cenozoic extensional tectonism in the western US. He has also published papers on contractional deformation in Antarctica, Australia, and California. He received his PhD from the University of Wyoming.

**Ilsa M. Schiefelbein** is a Senior Geologist currently employed by ExxonMobil Corporation in Houston, Texas. She received an MS at the University of Nevada, Las Vegas where she studied extensional tectonics in the Basin and Range Province and taught structural geology laboratories.

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