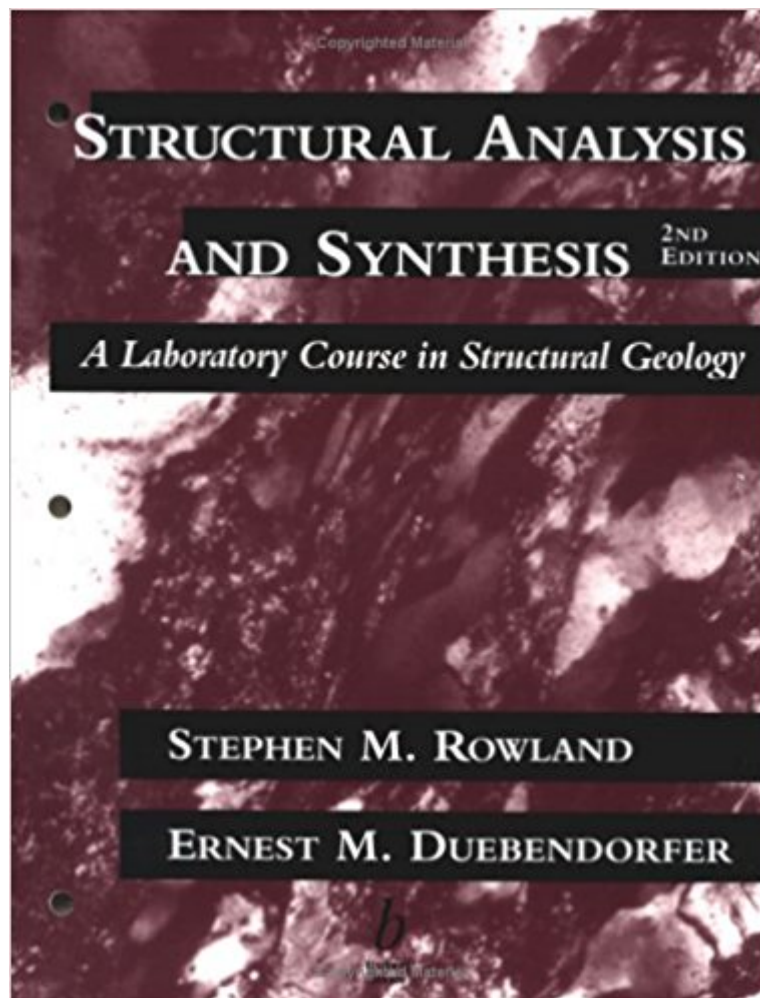




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# Structural Analysis And Synthesis: A Laboratory Course In Structural Geology, 2nd Edition



## Synopsis

This instructive, engaging, highly readable manual is intended for the laboratory portion of an undergraduate course in structural geology. Guided by students' and instructors' suggestions, Dr Stephen Rowland and his new co-author, Dr Ernest Duebendorfer, have refined various exercises for the second edition, and have added discussions of numerous topics, including axial planar foliations and the dip isogon methods of fold classification. There are also three new chapters on: balanced cross sections; deformation mechanisms, fault kinematics and microstructures; and plate tectonics.

## Book Information

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## Customer Reviews

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

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 analyses 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. --This text refers to the Spiral-bound edition.

Awful lab book. Incredibly simple examples of problems are given, then difficult and seemingly unrelated actual problems are given to work, with no instruction as to how to solve them. Imagine a 1st grade teacher teaching her class to add... $2+2 = 4$ . Then she hands her students worksheets full of linear algebra equations. That's basically this book. No explanations, no further instruction.... Google and Youtube have been better structural manuals for me than this book.

Tough book but an even tougher subject. Most of writing is dry and sometimes hard to follow. Diagrams and picture are the most helpful part of the book.

I HATE this book. This class is already most of geology student's biggest dreads but having a good textbook can make a world of a difference. Not the case here my geo friends. The layout is terrible. Want to look at a figure a paragraph just mentioned? You'd think you'd just look at the same page. NOPE. It's almost always on a different page that you need to constantly be turning to. Although some walk-throughs of example problems were good others sometimes made no sense. But since this is required reading just click add to card and learn some meditation techniques. You will need it!

This lab manual is great, however be prepared from a lot of confusing and problematic problems. Several answers are wrong and several of their versions of cross sections don't make any geologic sense. Some of the examples leave you questioning what to do next. It does have a lot of good information and is mostly easy to use. It helps you understand some concepts in your structural class. The map is just silly and some of it is wrong. But, once you learn where the mistakes are you can work through them in the right way. Doesn't go over stereonet as well as I would have liked, but other than that, it was an ok lab manual. Pencil doesn't work so well on the pages, use pen.

I thought this book would be an interesting lab book for my Structural Geology class. It has quality lab ideas in it; but the instructions on how to do them are HORRIBLE!! The instructions are often not clear and seeing as our professor didn't give us any insight either; we were left to figure it out on our own. I love the subject and figured most of them out on my own, but I would not recommend this book to one single other person.

Explains nothing. You might be able to figure it out if you are already a geologist, but then you wouldn't need this book would you? The book lacks examples equal to the problems it gives, and the examples it does have are not clear. I learned very little from the book.

I hate this manual.... It's rife with mistakes and gives crappy instruction. Some exercises are impractical while others impossible for a lab setting. It gets an extra star for LOTR references.

This is easily the worst, most convoluted geology lab manual I have ever had the misfortune of being assigned. If you are taking structural geology and this manual is forced on you, good luck, you're gonna need it.

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