



# Applied Subsurface Geological Mapping with Structural Methods (2nd Edition)

By Daniel J. Tearpock, Richard E. Bischke

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*Applied Subsurface Geological Mapping, With Structural Methods, 2nd Edition* is the practical, up-to-the-minute guide to the use of subsurface interpretation, mapping, and structural techniques in the search for oil and gas resources. Two of the industry's leading consultants present systematic coverage of the field's key principles and newest advances, offering guidance that is valuable for both exploration and development activities, as well as for "detailed" projects in maturely developed areas.

Fully updated and expanded, this edition combines extensive information from the published literature with significant material never before published. The authors introduce superior techniques for every major petroleum-related tectonic setting in the world.

Coverage includes:

- A systematic, ten-step philosophy for subsurface interpretation and mapping
- The latest computer-based contouring concepts and applications
- Advanced manual and computer-based log correlation
- Integration of geophysical data into subsurface interpretations and mapping
- Cross-section construction: structural, stratigraphic, and problem-solving
- Interpretation and generation of valid fault, structure, and isochore maps
- New coverage of 3D seismic interpretation, from project setup through documentation
- Compressional and extensional structures: balancing and interpretation
- In-depth new coverage of strike-slip faulting and related structures
- Growth and correlation consistency techniques: expansion indices, Multiple Bischke Plot Analysis, vertical separation versus depth, and more
- Numerous field examples from around the world

Whatever your role in the adventure of finding and developing oil or gas resources—as a geologist, geophysicist, engineer, technologist, manager or investor—the tools presented in this book can make you significantly more effective in your daily technical or decision-oriented activities.

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## **Editorial Review**

### **From the Publisher**

A complete, practical discussion of subsurface geologic methods -- with special emphasis on petroleum exploration.

### **From the Back Cover**

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### **About the Author**

**DANIEL J. TEARPOCK** is Chairman and Chief Executive Officer of Subsurface Consultants & Associates, LLC. (SCA), the industry leader in worldwide upstream petroleum consultancy and training. As a working geoscientist, he has generated numerous exploration and exploitation prospects, either on his own or as part of an organized team. As a company, SCA has helped clients find or develop billions of barrels of oil equivalent. He is the co-author of *Quick Look Techniques for Prospect Evaluation*.

**RICHARD E. BISCHKE**, Ph.D., Chief Structural Geophysicist of SCA, has conducted a wide range of structural geology projects, seismic interpretation, and balancing studies in extensional, compressional, and strike-slip environments. He specializes in the interpretation of complex structures, with recent studies in South America, the deepwater Gulf of Mexico, Alaska, Southeast Asia, and the North American Rocky Mountains.

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