

Richard H. Groshong, Jr.



**RICK GROSHONG** began his professional career on the faculty of Syracuse University. He then worked 10 years as a research geologist for Cities Service Oil Co., followed by 20 years as a professor at the University of Alabama, where he is now professor emeritus. He currently runs his own company, 3-D Structure Research, and is a continuing education teacher for Oil and Gas Consultants, Inc. His research appears in a variety of journals including the AAPG Bulletin, *Eclogae Geologicae Helveticae*, *Geology*, the *Geological Society of America Bulletin*, *Journal of Structural Geology*, *Tectonics*, and *Tectonophysics*.

He has been chairman of the Geological Society of America's Structure and Tectonics Division, an AAPG Distinguished Lecturer, a visiting chaired professor at the Université de Lausanne, and associate editor of *Geology* and *Tectonophysics*. He holds a B.S. from Bucknell University, M.A. from The University of Texas at Austin, and a Ph.D. from Brown University.

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**3-D Structural Geology** ■ 2nd Edition

This book contains practical techniques for constructing and validating 3-D structural interpretations in 2-D and 3-D environments. Designed for professionals, the focus is on interpreting data collected from outcrop measurements, wells, and 2-D profiles. Methods are presented for use with spreadsheets, mapping software, and three-dimensional computer-graphics programs, as well as for paper, pencil, and pocket calculator. Topics covered include location and bed thickness in deviated wells, constructing structure contour maps, mapping folds and faults in 3-D, fault magnitude and slip distribution, constructing faulted surfaces, predictive cross sections, quality control techniques, cross section restoration, and predicting the geometry of fault-related folds.

The second edition has been reorganized to follow the typical interpretation workflow more closely. A significant amount of new material has been added, in particular numerous examples of 3-D models and techniques for using kinematic models to predict fault and ramp-anticline geometry. The new edition includes a CD which supplements the text in several ways. Text figures are reproduced in color and complete Tecplot models are provided for a number of representative figures. For those interested in working exercises in mapping software, xyz input files are provided in text format for many of the map-based exercises. Answers to selected exercises are included.

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to Quantitative Surface  
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