



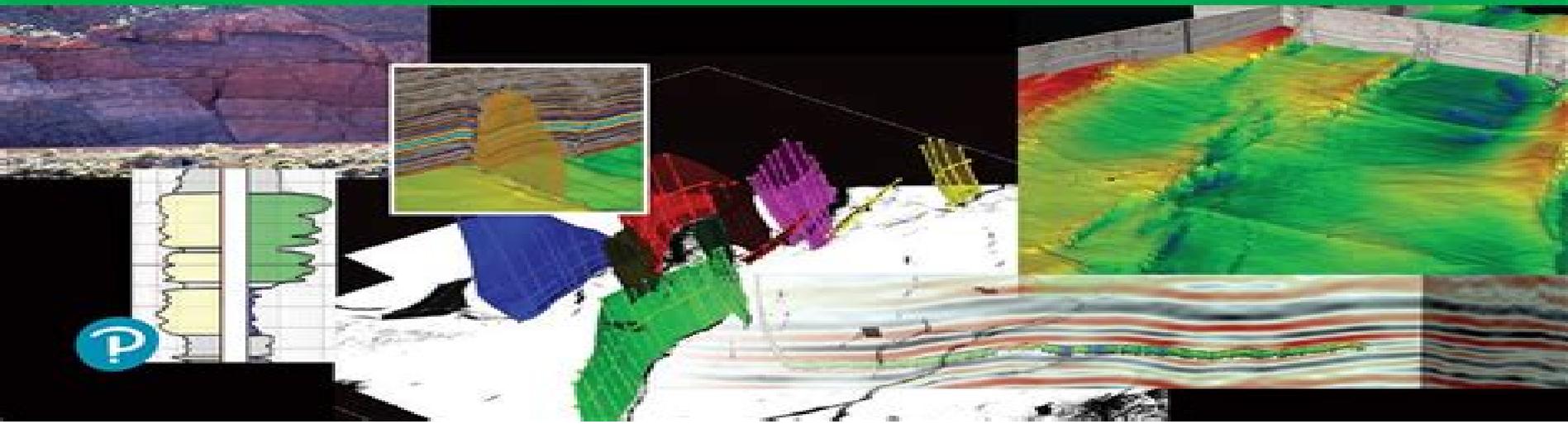
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Applied Three-Dimensional Subsurface Geological Mapping

with Structural Methods

Third Edition

Co-authored by J. Brenneke and D. Metzner



Applied Subsurface Geological Mapping With Structural Methods

B.B.S. Singhal †, R.P. Gupta



Applied Subsurface Geological Mapping With Structural Methods:

Applied Three-Dimensional Subsurface Geological Mapping Daniel J. Tearpock, David Metzner, James Brenneke, Richard E. Bischke, 2020-07-02 The Gold Standard Bible for Applied Subsurface Geological Mapping Extensively Updated for Working Teams Latest Advances Long recognized as the most authoritative practical and comprehensive guide to structural mapping methods *Applied Three Dimensional Subsurface Geological Mapping Third Edition* has been thoroughly updated to reflect recent technical developments with an emphasis on shale play basins horizontal drilling unconventional resources and modern workflows The authors of this edition have more than a century of collective experience in hydrocarbon exploration and development in major large independent companies throughout the world In this long awaited update they present revised and new chapters on computer mapping shale basin exploration and prospect reserves and risk They introduce key innovations related to shale reservoirs hydraulic fracturing and deviated horizontal and directional wells along with expanded discussions of computer interpretations and mapping Throughout the book links theory and practice based on fundamental geoscience principles These principles will help you integrate all available geological geophysical and engineering data to generate more reasonable and viable subsurface interpretations and to construct maps that successfully identify reserves Master core principles and proven methods for accurate subsurface interpretations and mapping Construct subsurface maps and cross sections from well logs seismic sections and outcrop data Work effectively with horizontal and directionally drilled wells and directional surveys Use powerful well log correlation techniques Construct viable fault and horizon structure maps Balance and interpret compressional extensional and strike slip structures Distinguish between the different structure styles and the characterization of growth structures Understand isochore and isopach maps This book is indispensable for every integrated working team consisting of geologists geophysicists and engineers that prepares subsurface geological interpretations and maps as well as for every manager executive and investor who uses or evaluates prospects Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details [Applied Subsurface Geological Mapping with Structural Methods](#) Daniel J. Tearpock, Richard E. Bischke, 2002-08-16 *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 Applied Subsurface Geological Mapping with Structural Methods, Second Edition Daniel J. Tearpock, Daniel J., Richard E. Bischke, 2002 **Applied Three-Dimensional Subsurface Geological Mapping** Daniel Tearpock, Richard E. Bischke, Richard Bischke, David C. Metzner, James Brenneke, David Metzner, 2020 The Gold Standard Bible for Subsurface Geological Mapping Extensively Updated for the Field's Latest Advances Long recognized as the most authoritative practical and comprehensive guide to structural mapping methods Applied Three Dimensional Subsurface Geological Mapping Third Edition has been thoroughly updated to reflect recent technical developments with an emphasis on shale play basins unconventional resources and modern workflows The authors of this edition have more than a century of collective experience in hydrocarbon exploration and development and in this long awaited update they present new chapters on computer mapping shale basin exploration and prospect reserves and risk analysis They introduce key innovations related to shale reservoirs hydraulic fracturing deviated wells and directional wells and expanded discussions of computer geologic interpretation and mapping Throughout the book links theory and practice to help you integrate all available geologic engineering and geophysical data generate more reasonable subsurface interpretations and build maps that successfully identify reserves Master core principles and proven methods for accurate subsurface interpretation and mapping Construct subsurface maps and cross sections from well logs seismic sections and outcrops Work effectively with directionally drilled wells and directional surveys Use powerful log correlation techniques Build fault and structure maps Balance and interpret compressional and extensional structures Characterize strike slip faults and growth structures Understand isochore and isopach maps This book is indispensable for every geologist geophysicist and engineer who prepares subsurface geological interpretations and maps as well as for every manager executive and investor who uses or evaluates them Applied Subsurface Geological Mapping Daniel J. Tearpock, Richard E. Bischke, 1991 M. C. H. *Seismic Stratigraphy and Depositional Facies Models* P. C. H. Veeken, 2013-11-14 The 2e of *Seismic Stratigraphy and Depositional Facies Models* summarizes basic seismic interpretation techniques and demonstrates the benefits of integrated reservoir studies for hydrocarbon exploration Topics are presented from a practical point of view and are supported by well illustrated case histories The reader is taken from a basic level to

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