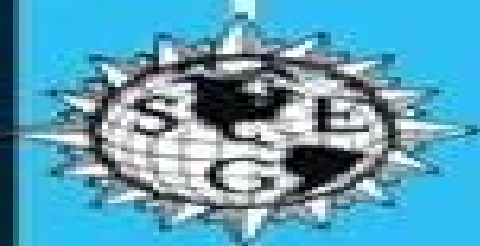


# monograph series



NUMBER 2

## PITFALLS IN SEISMIC INTERPRETATION

By Paul M. Tucker  
Howard J. Yonson

society of exploration geophysicists

# Pitfalls In Seismic Interpretation

**Paul M. Tucker**



## **Pitfalls In Seismic Interpretation:**

**Pitfalls in Seismic Interpretation** Paul M. Tucker, Howard J. Yorston, 1973 The authors wisdom regarding pitfalls in interpretation is born of experience not all of which was pleasant Their work will be appreciated by all explorationists who have found that the earth s crust and its seismic events are not well ordered This monograph s unique style makes delightful reading

*Pitfalls in Seismic Interpretation* Paul M. Tucker, Howard J. Yorston, 1973 Current data processing and presentation yield seismic sections that resemble geologic cross sections but if the geology is complex there are potential pitfalls in interpretation those associated with velocity which occur because seismic data are presented in travelttime rather than depth those associated with geometry because reflections from a 3D space are plotted in a 2D section and those associated with recording and processing because all recorded events are not of geologic origin and improper processing can mask geology

Pitfalls Revisited Paul M. Tucker, 1982

Elements of Petroleum Geology Richard C. Selley, 1998 This third edition of Elements of Petroleum Geology is completely updated and revised to reflect the vast changes in the years since publication of the First Edition This book is a useful primer for geophysicists geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area It is also an excellent introductory text for a university course in petroleum geoscience Elements of Petroleum Geology begins with an account of the physical and chemical properties of petroleum reviewing methods of petroleum exploration and production These methods include drilling geophysical exploration techniques wireline logging and subsurface geological mapping After describing the temperatures and pressures of the subsurface environment and the hydrodynamics of connate fluids Selley examines the generation and migration of petroleum reservoir rocks and trapping mechanisms and the habit of petroleum in sedimentary basins The book contains an account of the composition and formation of tar sands and oil shales and concludes with a brief review of prospect risk analysis reserve estimation and other economic topics Updates the first edition completely Reviews the concepts and methodology of petroleum exploration and production Written by a preeminent petroleum geologist and sedimentologist with 30 years of petroleum exploration in remote corners of the world Contains information pertinent to geophysicists geologists and petroleum reservoir engineers

**Petroleum Systems of Deepwater Settings** Paul Weimer, Roger M. Slatt, 2004

**Elements of Petroleum Geology** Mr. Rohit Manglik, 2024-01-07 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

*Proceedings of the International Field Exploration and Development Conference 2024* Jiaen Lin, 2025-05-30 This book compiles selected papers from the 14th International Field Exploration and Development Conference IFEDC 2024 The work focuses on topics including Reservoir Exploration Reservoir Drilling Completion Field Geophysics Well Logging Petroliferous Basin Evaluation Oil Gas

Accumulation Fine Reservoir Description Complex Reservoir Dynamics and Analysis Low Permeability Tight Oil Gas Reservoirs Shale Oil Gas Fracture Vuggy Reservoirs Enhanced Oil Recovery in Mature Oil Fields Enhanced Oil Recovery for Heavy Oil Reservoirs Big Data and Artificial Intelligence Formation Mechanisms and Prediction of Deep Carbonate Reservoirs and other Unconventional Resources The conference serves as a platform not only for exchanging experiences but also for advancing scientific research in oil gas exploration and production The primary audience for this work includes reservoir engineers geological engineers senior engineers enterprise managers and students

**Passive Seismic Monitoring of Induced Seismicity** David W. Eaton, 2018-04-26 The past few decades have witnessed remarkable growth in the application of passive seismic monitoring to address a range of problems in geoscience and engineering from large scale tectonic studies to environmental investigations Passive seismic methods are increasingly being used for surveillance of massive multi stage hydraulic fracturing and development of enhanced geothermal systems The theoretical framework and techniques used in this emerging area draw on various established fields such as earthquake seismology exploration geophysics and rock mechanics Based on university and industry courses developed by the author this book reviews all the relevant research and technology to provide an introduction to the principles and applications of passive seismic monitoring It integrates up to date case studies and interactive online exercises making it a comprehensive and accessible resource for advanced students and researchers in geophysics and engineering as well as industry practitioners

*Pitfalls Revisited* Paul M. Tucker, 1982 This booklet expands on the interpretation traps listed in SEG's popular monograph *Pitfalls in Seismic Interpretation* Non technical and mental pitfalls are outlined in the sections on velocity geometry recording and processing and stratigraphic traps

**3-D Seismic Interpretation** Bruce S. Hart, 2000 3 D seismic technology is spreading out beyond the domain of the petroleum industry The environmental and mining industries and academic groups are collecting and interpreting 3 D seismic data Increasing numbers of geologists often with little or no geophysical training are being exposed to the technology or results derived therefrom Despite this interest there are few opportunities for the practicing geologists or engineer to become acquainted with 3 D seismic technology at the appropriate level This course is an attempt to fill that gap

**The Leading Edge**, 2004 **Bulletin** Corpus Christi Geological Society, 2004 **C.S.P.G. Reservoir** Canadian Society of Petroleum Geologists, 1993 **Petroleum Abstracts. Literature and Patents**, 1986 **Bulletin - Australian Society of Exploration Geophysicists** Australian Society of Exploration Geophysicists, 1981 **Quick Look Techniques for Prospect Evaluation** Daniel J. Tearpock, Richard E. Bischke, Joseph L. Brewton, 1994 This new book covers numerous QUICK LOOK TECHNIQUES Pitfalls in reviewing evaluating geologic interpretations in particular oil gas prospects The text concentrates on the application of a number of QUICK LOOK TECHNIQUES QLTs that can be used to provide an accurate rapid evaluation about the quality of a prospect The authors of the best seller *Applied Subsurface Geological Mapping* have once again teamed up have been joined by Joe Brewton to write another masterful applied methodology textbook in the area

of petroleum geology Significant investment decisions are often made based on the prospects presented with geologic geophysical support in the form of interpreted seismic sections various maps including fault structure isochores cross sections Where decisions are critical Into which prospects do we place our investment dollars the QUICK LOOK TECHNIQUES presented in this text can be powerful tools essential for explorationists who know that accurate maps are the treasure maps to success John Lopez Sr Geologic Consultant Amoco Production Co After taking the QLT Seminar this book is the perfect complement for day to day hands on application B A Berilgen VP Operations Forest Oil Corp invaluable to any person who must make decisions based on subsurface maps I highly recommend this book Peyton M Lake President CEO Lake Ronel Oil Co Order from Subsurface Consultants Associates Inc 1720 Kaliste Saloom Rd B 1 Lafayette LA 70508

**Sequence Stratigraphy** Dominic Emery, Keith Myers, 2013-07-03 The innovation and refinement of the techniques and concepts of sequence stratigraphy has been one of the most exciting and profound developments in geology over the past thirty years Seismic stratigraphy has now become one of the standard tools of the geoscientist and there is a pressing need for an introductory text on sequence stratigraphy This new book sets out to define and explain the concepts principles and applications of this remarkably influential approach to the study of sedimentary strata The authors take a rigorous objective stance in evaluating the techniques and interpretation of sequence stratigraphy basing the text on an internal training course developed by British Petroleum BP A new text on this increasingly important field A practical guide based on the experience of practising sequence stratigraphers Based on a highly successful BP training course *Bulletin of the Australian Society of Exploration Geophysicists* Australian Society of Exploration Geophysicists, 1983 **Proceedings of the Second International Seminar & Exhibition Geophysics Beyond 2000**, 1996 Papers with special reference to India **Mining Engineering**, 1974 Vol 3 includes v 190 of the Transactions

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