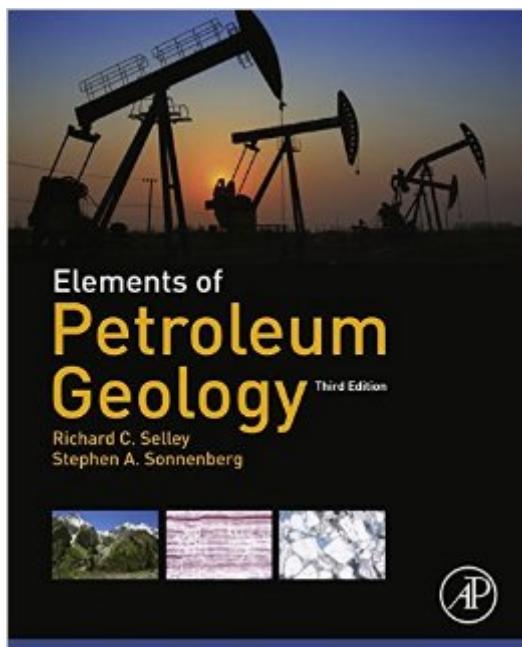


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# Elements Of Petroleum Geology



## Synopsis

This Third Edition of Elements of Petroleum Geology is completely updated and revised to reflect the vast changes in the field since publication of the Second 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 Second Edition completely

Reviews the concepts and methodology of petroleum exploration and production

Written by a preeminent petroleum geologist and sedimentologist with decades of petroleum exploration in remote corners of the world

Contains information pertinent to geophysicists, geologists, and petroleum reservoir engineers

Updated statistics throughout

Additional figures to illustrate key points and new developments

New information on drilling activity and production methods including crude oil, directional drilling, thermal techniques, and gas plays

Added coverage of 3D seismic interpretation

New section on pressure compartments

New section on hydrocarbon adsorption and absorption in source rocks

Coverage of The Orinoco Heavy Oil Belt of Venezuela

Updated chapter on unconventional petroleum

## Book Information

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## Customer Reviews

I bought this book for a graduate level course. I still use it in my professional life. It's about the right amount of detail for covering a lot of complex topics without overloading people new to the industry. Obviously if you're looking for more specific topics/workflows/technical breakdowns of specific sub-disciplines, there are available books for them, but this is a great overview of the petroleum field from a geology perspective. As I stated before, it's a great reference to look back to when refreshing myself on topics that I may not use in an everyday capacity. I would recommend this book for any student or any early-career petroleum geologist.

Very thin pages on this hardback edition. You can see through each page and the text on the other side. Not great quality. The content is fine but really limited to the 'elements' much of the time. As a graduate student, I wish there was more content

Selley does an excellent job on explaining the Elements of Petroleum Geology with regard to conventional reservoirs and traps. I use his text to teach a course by that title. I change the order of presentation to follow the essential elements necessary for a petroleum accumulation, then get into the exploration methods and basin analysis. Sonnenberg's contribution of unconventional reservoirs is authoritative and very timely. Together they have made an excellent teaching and reference text.

Magnificent book!

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