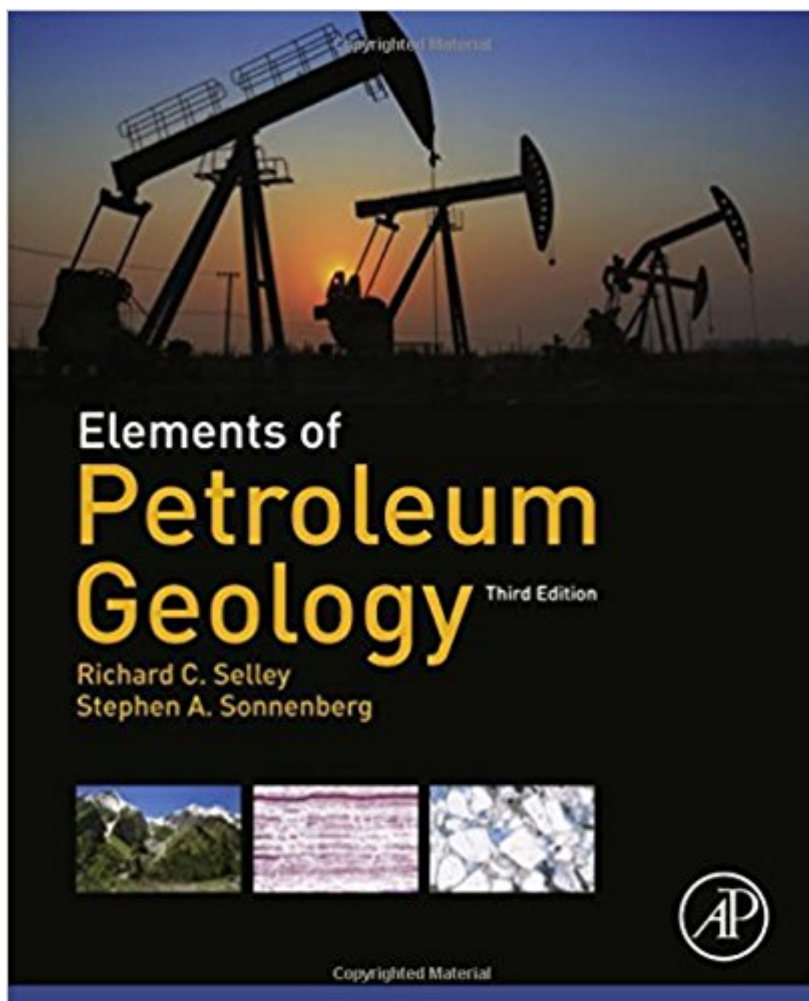


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# Elements Of Petroleum Geology, Third Edition



## 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

Hardcover: 526 pages

Publisher: Academic Press; 3 edition (November 27, 2014)

Language: English

ISBN-10: 0123860318

ISBN-13: 978-0123860316

Product Dimensions: 1.2 x 7.5 x 9.2 inches

Shipping Weight: 2.9 pounds

Average Customer Review: 4.5 out of 5 stars 7 customer reviews

Best Sellers Rank: #200,387 in Books (See Top 100 in Books) #30 in Books > Engineering &

Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum #111  
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## Customer Reviews

"Elements of Petroleum Geology has been the [best](#) book I recommend most often to mudloggers [and](#) well site geologists who want to fill their knowledge gaps or [gain](#) a [wider](#) [perspective](#) on practical petroleum geology. I will continue [to](#) recommend this book to all [prospective](#) students who wish to pursue a geoscience or engineering [career](#) in the oil industry." --Geoscientist "...an excellent book, broad in scope, well organized and well presented, effectively illustrated, and written in a warm, easy-to-read style...highly recommended." --The Leading Edge "...essential reading for anyone interested in petroleum geology, from students and motivated amateurs to geologist, engineers, geophysicists, and basically anyone working in the oil industry....The information is cutting edge..." --Tundraco: A Resource Guide for Rockhounds "The third edition of Elements of Petroleum Geology by Richard C. Selley and Stephen A. Sonnenberg is the most up-to-date and essential text on petroleum geology that I've seen. The third edition of this classic text has been fully updated and revised when compared to the second edition, making it an essential textbook and reference guide for both students and professionals in the field." --Boris Segel, Tundraco: A Resource Guide for Rockhounds "This book is extremely well written and easy to read...I would highly recommend this book as an excellent introduction to the field in university courses, to those new in petroleum industry, to nongeoscientists working with geologists, and those interested in a review of petroleum geology. I recommend Selley's text for its easy and clear text and 332 illustrations, especially for college students and those interested in concise review. This text will carry forward aspects of petroleum geology into the XXI century." --Marcio R. Mello, Center of Excellence of Geochemistry "This comprehensive, stimulating book conveys information with intelligence, clear illustrations, and marvelous wit. The author writes with clarity and authority and with a grasp of the subject matter that is lightly presented." --Fouad Michael, Western Geophysical, Houston, Texas, The Leading Edge "...An authoritative piece of work written by an author with over 30 years experience. If you require an overview of petroleum geoscience, I recommend you buy the Elements of Petroleum Geology." --Giancarlo Rizzi, Core Carbonates, PESGB REVIEW "Works well as a college-level introductory text and as a reference for informed nongeologists, such as geophysicists or petroleum engineers." --American Association of Petroleum Geologists "An excellent [and] very readable text for final year undergraduates." --Nature "An excellent book, ideal

for the inexperienced, and a good review for those who have been around for a while." --Society of Exploration Geophysicists "An introductory text for university courses in petroleum geoscience, also useful as a reference for professional petroleum geoscientists and engineers. Emphasis is on petroleum geology, with additional material on geophysics and petroleum reservoir engineering. Coverage includes methods of exploration, the subsurface environment, generation and migration of petroleum, sedimentary basins and petroleum systems, and nonconventional petroleum resources. Includes black and white photos, many tables, maps, and diagrams, a glossary, and an appendix of units and conversion factors. This edition takes into account advances in concepts and technology over the past 15 years." --Reference and Researching Book News "An authoritative piece of work written by an author with over 30 years experience of petroleum geoscience, I recommend you to buy Elements Of Petroleum Geology." --Petroleum Exploration Society of Great Britain

In the fifteen years since the highly successful first edition of Elements of Petroleum Geology was written, there have been many advances in the concepts and technology of petroleum geoscience. The second edition has been extensively rewritten and updated to reflect these advances. Nonetheless it has the same objective as the first edition: to serve as an introductory text for university courses in petroleum geoscience, and as a primer for professional petroleum geoscientists and engineers who wish to expand their knowledge base beyond their own specialist area.

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.

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.

good

Magnificent book!

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

Big improvement over 2nd edition.

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