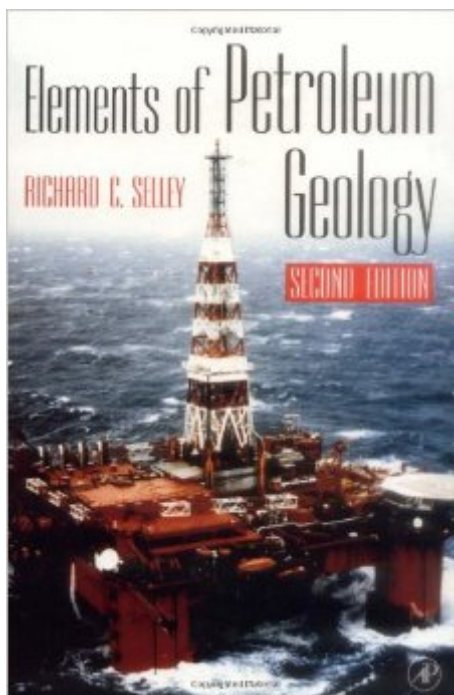


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# Elements Of Petroleum Geology, Second Edition



## Synopsis

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

## Book Information

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## Customer Reviews

This second edition surveys the science of petroleum geology. It describes the generation,

migration, and entrapment of oil and gas, and outlines the procedures used in their location, evaluation, and production. The topics, appropriate for the geology student (and cyber-cadet seeking abiogenic petroleum anywhere in the universe), include requisite basic material from the fields of petroleum engineering and geophysics. The eight colour plates are packed with useful information. Selley's writing style is most welcome.

This was my first introduction into the world of Petroleum Geology. I had already studied most geology in undergraduate, and used this book for an independent study in Petroleum Geology. Read it all the way through and to this day look back and realize how good of a foundation it was. Covers everything it needs to in a very readable format with good examples and illustrations.

Good beginners and professional petroleum geology book! I work full time for a private oil company and use this book everyday!

It is a useful, well written and fairly complete introductory book to Petroleum Exploration but it is somewhat outdated; good anyway to have it on the shelf for a quick reference.

This book covers everything I needed to know in my last year of undergraduate geology. It even covers the finer parts such as the heavier hydrocarbons and how they originate to become the way they are today. Could not be happier with this book.

Excellent book, easy to read for petroleum engineers yet quite insightful and nicely presented. A great deal of references are useful to direct further reading, this book became my preferred reference in petroleum geology. Highly recommendable. Excelente libro, fácil de leer para ingenieros de petróleo pero no por eso superficial y además sobriamente formateado. Gran cantidad de referencias cumplen su propósito de dirigir el estudio de aquellos interesados en profundizar en cualquiera de los tópicos que cubre el autor más que satisfactoriamente. Sin duda una de mis referencias preferidas en el tema. Altamente recomendable.

An excellent overview of petroleum geology from exploration, including commentary on gravitational, magnetic, 3d, 4d seismic, MRI and borehole logging methodology, to drilling on and off shore worldwide, to leasing, reservoir estimation, and development (reservoir enhancement methodology). Extensive bibliography is provided. While this book can serve the, deeply interested

,novice it will also serve ,well, students and young proffesionalns in the various specialty fields of the petroleum sciences and industry.

This book is an easy to read and offers a full coverage of topics in Petroleum Geology. I used and use it, amongst others, as a first reference to refresh my memory, before returning to work as an exploration geophysicist.

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