



# Petroleum Economics and Engineering, Third Edition

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## **Petroleum Economics and Engineering, Third Edition** From CRC Press

This book explains how to apply economic analysis to the evaluation of engineering challenges in the petroleum industry. Discussion progresses from an introduction to the industry, through principles and techniques of engineering economics, to the application of economic methods. Packed with real-world examples and case studies demonstrating how to calculate rate of return, discounted cash flow, payout period, and more, **Petroleum Economics and Engineering, Third Edition** assists petroleum engineers, chemical engineers, production workers, management, and executives in sound economic decision-making regarding the design, manufacture, and operation of oil and gas plants, equipment, and processes.

The fully revised third edition is updated to reflect key advancements in petroleum technology and expanded to include chapters on middle stream operations, known as surface petroleum operations (SPO), and natural gas processing and fractionation. By looking globally at the hydrocarbon industry, the improved text offers the reader a more complete picture of the petroleum sector, which includes the global processes of exploration, production, refining, and transportation.

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## **Petroleum Economics and Engineering, Third Edition** From CRC Press Bibliography

- Sales Rank: #3318732 in Books
- Published on: 2013-12-14
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 6.25" w x 1.00" l, .0 pounds
- Binding: Hardcover
- 478 pages

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### Review

"...an excellent text for petroleum engineering departments, and a very good supplementary text in economics and chemical engineering departments. It is also a very good reference for practicing engineers."  
?Mazen A. Al-Shalabi, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

### About the Author

**Hussein K. Abdel-Aal** is emeritus professor for National Research Center (NRC), Cairo, Egypt and King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia. He received his BS from Alexandria University, Egypt and his MS and Ph.D from Texas A&M University, College Station, USA. He has worked as process engineer for Suez oil refineries, headed KFUPM's Chemical Engineering Department, served as visiting professor for Texas A&M, and headed NRC's Solar Energy Department. He has contributed to over 90 technical papers, edited one book on petroleum economics and engineering, and authored *Petroleum and Gas Field Processing*. An AIChE member and fellow, he is founder of the board for the International Association of Hydrogen Energy, Miami, Florida, USA.

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