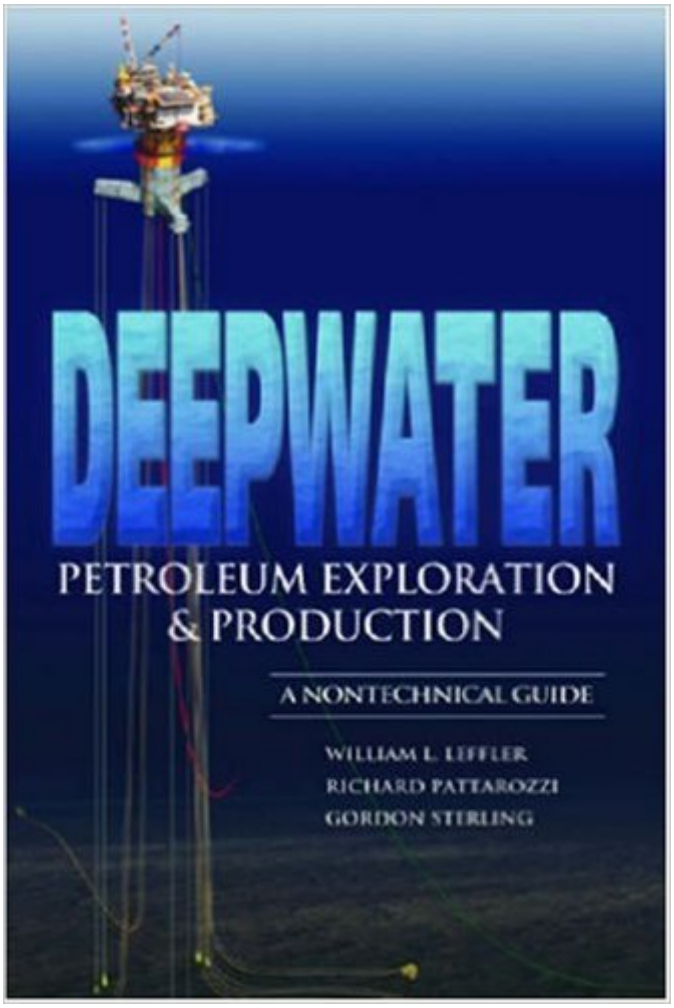
Deepwater Petroleum Exploration & Production: A Nontechnical Guide



Synopsis

Text overviews the business, engineering, and technology of deepwater petroleum exploration and production. Provides coverage of all aspects of deepwater operations: including historic background; drilling and completing wells; development systems; fixed structures; floating production systems; subsea systems; topsides; and pipelines, flowlines, and risers.

Book Information

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Customer Reviews

This is a good place to start if you’re looking for a very general introduction to deepwater exploration and production (E&P). Almost nothing gets a lot of detail, but almost nothing is omitted. The chapters cover the following topics:1 - history of offshore drilling2 - the move into deeper and deeper water in the eighties3 - exploration4 - drilling and completion5 - development systems6 - fixed structures -- compliant towers, concrete, etc.7 - floating systems -- TLPs, FPSOs, spars, and so on8 - subsea systems9 - topsides10 - piplines, flowlines, and risers11 - technology and the futureThe writing is sound, and there are plenty of decent graphics -- pictures of the gigantic Bullwinkle platform; photographs and schematics of equipment and layouts; and a couple of colour plates showing seismic analysis displays. The chapters are really just overviews -- although there’s a fair amount of detail in some areas, particularly in platform construction and assembly, there is so much to say that they can’t do more than scratch the surface.The book does give you quite a lot of vocabulary to work with, which is valuable. There are a multitude of online oil and gas glossaries

that you might want to search for via the web, but the narrative form that this book provides is a pretty good way to understand them too.If you are new to E&P and would like a good overview, this is a pretty good place to start, but it won't take you very far in any one direction.

Leffler, Pattarozzi, and Sterling have produced a useful and interesting book about the challenge of drilling for oil at incredible depths beneath the ocean. The book strikes just the right balance, as both a brief overview of the industry and a detailed look at essential concepts of deepwater exploration and production.This book begins with a brief history of oil exploration, both onshore and offshore. Throughout, the authors provide boxes with interesting facts and background material that help maintain the reader's interest. Some boxes are stories of innovations in the field (such as John Chance's invention of a system to "decode" the jittered government GPS data) whlie other boxes explain some of the unfamiliar terms of the oilfield world, like use of "Christmas Tree" for a certain piece of equipment and the use of unusual names for oilfield leases (such as "Bullwinkle" and "Cognac").My only dissatisfaction with the book is the lack of a bibliography to assist the reader in finding more information on certain subjects covered. Also, the index should include more key names and terms. (For example, the name John Chance is not in the index despite the fact that his discovery is mentioned in a supplemental box.) I like any book that I read to have an extensive index so that I can quickly return to interesting passages.The book is a relatively quick read. In just one day I read about one-third of the book (well into Chapter 4). The book assumes that the reader has little technical knowledge (but at least some technical interest) and would be a good introduction to the oilfield terminology and concepts, especially for nontechnical personnel who have to work with the engineers and geologists. (For the record, I am a civil engineer, and I worked a little with the oil industry in the past. My current interest is in the creative aspects of design and innovation.)

For me the book was very interesting and contained a lot of new material, as with other books on non-technical series, the material is a little too basic for a professional, but definitely the best way to build-up your knowledge on deepwater exploration and production.

If you have anything to do with the oil industry, this book is a must read!The author's wording is straightforward and easy to understand. Diagrams and pictures are provided to supplement the learning experience.Even better, you can read this book in a relatively short period of time.I have a business background and after reading this, I feel like a technical expert. That is until I'm confronted by a technical expert.

Deepwater Petroleum Exploration & Production: A Nontechnical Guide Exploring for Oil and Gas Traps (Treatise of Petroleum Geology, Handbook of Petroleum Geology Series) (Treatise of Petroleum Geology, Handbook of Petroleum Geology Series) Nontechnical Guide to Petroleum Geology, Exploration, Drilling and Production (2nd Edition) Nontechnical Guide to Petroleum Geology, Exploration, Drilling & Production, 3rd Ed. Natural Gas & Electric Power in Nontechnical Language (Pennwell Nontechnical Series) Hydrocarbon Exploration and Production, Volume 55, Second Edition (Developments in Petroleum Science) Hydrocarbon Exploration and Production: 55 (Developments in Petroleum Science) Dictionary of Petroleum Exploration, Drilling & Production Operational Aspects of Oil and Gas Well Testing, Volume 1 (Handbook of Petroleum Exploration and Production) Petroleum Refining in Nontechnical Language, Fourth Edition Modern Radio Production: Production Programming & Performance (Wadsworth Series in Broadcast and Production) Volcanic Reservoirs in Petroleum Exploration Applied Hydrodynamics in Petroleum Exploration Terrigenous Clastic Depositional Systems: Applications to Petroleum, Coal, and Uranium Exploration Petroleum Production Systems (2nd Edition) Deepwater Horizon Disaster on the Horizon: High Stakes, High Risks, and the Story Behind the Deepwater Well Blowout Deepwater Horizon: A Systems Analysis of the Macondo Disaster Run to Failure: BP and the Making of the Deepwater Horizon Disaster Seismic Stratigraphy, Basin Analysis and Reservoir Characterisation (Handbook of Geophysical Exploration: Seismic Exploration)