

Surface Production Operations, Volume 1:, Second Edition: Design of Oil-Handling Systems and Facilities

By Ken Arnold, Maurice Stewart

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In this new edition, experts Arnold and Stewart share their many years of in-the-field and class-room experience. Each chapter has been updated with the latest industry information. You will find new sections on:

* Oil-and-water separation
* Offshore-platform considerations
* Factors affecting oil-and-gas separation
* Potential operating problems
* Scrubbers
* Re-entrainment
* Drain systems
* Hydrocyclones
* Multiphase pumps
* Reciprocating pump operations
* Water droplet size

New figures, photos, charts, and tables consolidate hours of details into "at-a-glance" illustrations. Example problems accompany the update text. With this volume's clear presentation, you will understand the basic concepts and techniques needed to DESIGN, SPECIFY, and OPERATE oilfield surface production facilities. This manual carefully describes the equipment and processes commonly used in oil-water separating and treating systems. It also shows you how to select the appropriate piping and pumping systems. The authors' insights and practical suggestions help you understand the art and science of handling produced liquids. With this reference in hand, you can organize the project with a better grasp of the complex parameters needed to design and operate an efficient production facility.

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Review
"As a Process Engineer, working in both operations and design in the upstream oil industry, it is pleasing to find a text that finally covers all the unit operations you are likely to encounter in oil processing. The book is an easy read that doesn't get weighed down in first principles. This means that you can quickly get the information you require and have confidence in your decisions. It's a must for anyone working in the industry, especially those who may be offshore, I always have my copy with me." - Ed Pickering

About the Author
Ken Arnold is the Embedded Computer Engineering Program Coordinator and an instructor at UCSD Extension, as well as founding director of the On-Line University of California, where he manages, develops and teaches courses in engineering and embedded systems design. Ken has been developing commercial embedded systems and teaching others how for more than two decades. As the champion of the embedded program at UCSD, he lead the inception and growth of the program as well as introducing the world's first on-line embedded course well over a decade ago. Ken was also the founder and CEO of HiTech Equipment Corp., CTO of Wireless Innovation, and engineering chief at General Dynamics.

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