



Emulsions and Oil Treating Equipment: Selection, Sizing and Troubleshooting

By Maurice Stewart, Ken Arnold

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The problem of removing water which is emulsified with produced oil has grown more widespread and often times more difficult as producers attempt to access more difficult reserves. This practical guide is designed to help engineers and operators develop a "feel" for selection, sizing, and troubleshooting emulsion equipment. These skills are of vital importance to ensure low operating costs and to meet crude export quality specifications. The book is written for engineers and operators, who need advanced knowledge of the numerous techniques and the equipment used to destabilize and resolve petroleum emulsions problems.

In *Emulsions and Oil Treating Equipment: Selection, Sizing and Troubleshooting* the author provides engineers and operators with a guide to understanding emulsion theory, methods and equipment, and practical design of a treating system. Comprehensive in its scope, the author explains methods such as: demulsifiers, temperature, electrostatics and non-traditional methods of modulated or pulsed voltage control, as well as equipment such as: electrostatic treater (dehydrator), separator, gunbarr heater-treater and free water knockout. Written in a "how to" format, it brings together hundreds of methods, handy formulas, diagrams and tables in one convenient book.

- Detailed coverage emulsion equipment and removal methods
- Tips for selecting, sizing, and operating emulsion equipment
- Overview of emulsion theory and factors affecting treatment methods
- Packed with equipment diagrams, worked out calculations covers equipment and removal methods

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Editorial Review

Review

"I like the approach of introducing the theory and principles as a backdrop for discussing how things really work. For example, in theory emulsions can be formed by vigorously mixing oil and water. In application, such vigorous mixing through chokes and valves must be considered in the design and layout of the production/separation equipment. I like the idea that this book is based on." --**Kevin A. Juniel, Product Manager, NATCO Group Inc.**

About the Author

Dr. Maurice Stewart, PE, a Registered Professional Engineer with over 40 years international consulting experience in project management; designing, selecting, specifying, installing, operating, optimizing, retrofitting and troubleshooting oil, water and gas handling, conditioning and processing facilities; designing plant piping and pipeline systems, heat exchangers, pressure vessels, process equipment, and pumping and compression systems; and leading hazards analysis reviews and risk assessments.

Ken Arnold is the founder and former president of Paragon Engineering Services, Houston, Texas. He has more than 40 years of experience in the operations and project management. He is actively involved in production facility design. He has served on numerous SPE, API, and government advisory committees as an expert on oil handling, produced-water treating, and safety aspects producing operations.

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