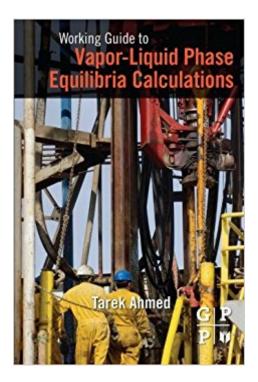


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Working Guide To Vapor-Liquid Phase Equilibria Calculations





Synopsis

Working Guide to Vapor-Liquid Phase Equilibria Calculations offers a practical guide for calculations of vapor-phase equilibria. The book begins by introducing basic concepts such as vapor pressure, vapor pressure charts, equilibrium ratios, and flash calculations. It then presents methods for predicting the equilibrium ratios of hydrocarbon mixtures: Wilson's correlation, Standing's correlation, convergence pressure method, and Whitson and Torp correlation. The book describes techniques to determine equilibrium ratios of the plus fraction, including Campbell's method, Winn's method, and Katz's method. The remaining chapters cover the solution of phase equilibrium problems in reservoir and process engineering; developments in the field of empirical cubic equations of state (EOS) and their applications in petroleum engineering; and the splitting of the plus fraction for EOS calculations.Includes explanations of formulasStep by step calculations Provides examples and solutions

Book Information

Paperback: 300 pages Publisher: Gulf Professional Publishing; 1 edition (October 1, 2009) Language: English ISBN-10: 1856178269 ISBN-13: 978-1856178266 Product Dimensions: 6 x 0.3 x 9 inches Shipping Weight: 7.2 ounces (View shipping rates and policies) Average Customer Review: 4.0 out of 5 stars 3 customer reviews Best Sellers Rank: #1,094,308 in Books (See Top 100 in Books) #12 inà Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Hydroelectric #261 inà Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Mining #282 inà Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum

Customer Reviews

Understanding how income-producing hydrocarbon fluids change and interact through the life of a reservoir is important. It is especially critical in newer reservoirs where equipment decisions are being made before or during drilling, but there are opportunities even in mature operations. Vapor-Liquid Phase Equilibria Calculations Methods provides readers with a step by step guide to the most important calculations that forms the bases for all subquient business decisions.

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no enough various examples ,all examples about calculating density, which could be learned by finding an examples in any books in library ,

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