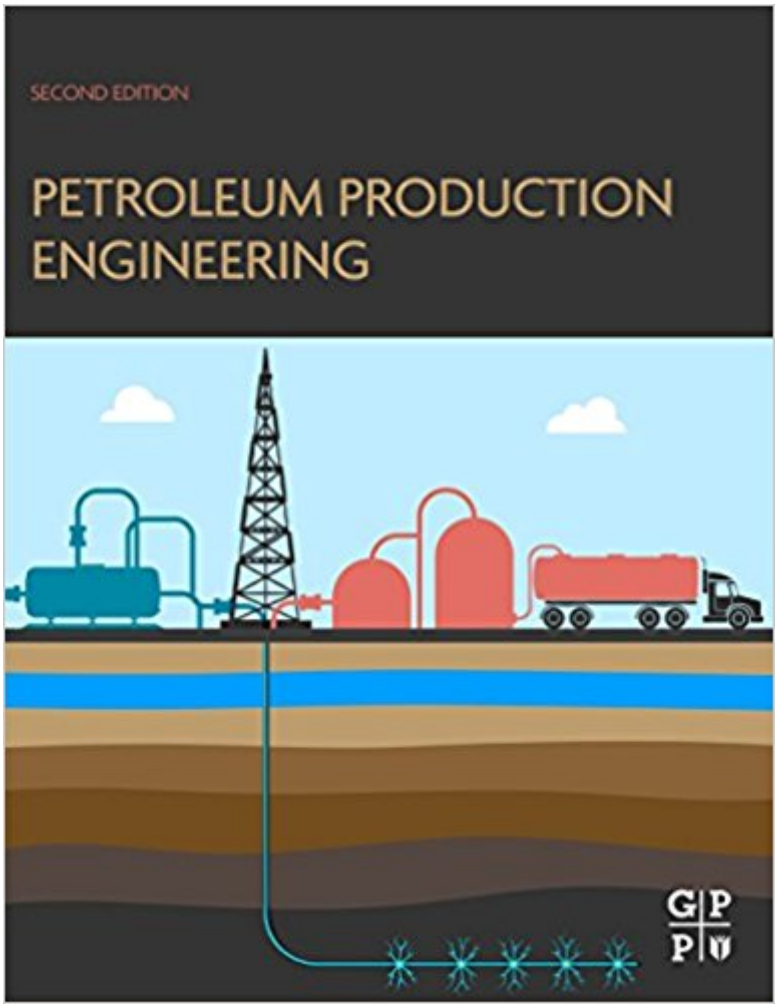
Petroleum Production Engineering, Second Edition



Synopsis

Petroleum Production Engineering, Second Edition, updates both the new and veteran engineer on how to employ day-to-day production fundamentals to solve real-world challenges with modern technology. Enhanced to include equations and references with todayÃ¢â ¬â„¢s more complex systems, such as working with horizontal wells, workovers, and an entire new section of chapters dedicated to flow assurance, this go-to reference remains the most all-inclusive source for answering all upstream and midstream production issues. Completely updated with five sections covering the entire production spectrum, including well productivity, equipment and facilities, well stimulation and workover, artificial lift methods, and flow assurance, this updated edition continues to deliver the most practical applied production techniques, answers, and methods for todayÃ¢â ¬â„¢s production engineer and manager. In addition, updated Excel spreadsheets that cover the most critical production equations from the book are included for download. Updated to cover todayÃ¢â ¬â„¢s critical production challenges, such as flow assurance, horizontal and multi-lateral wells, and workoversGuides users from theory to practical application with the help of over 50 online Excel spreadsheets that contain basic production equations, such as gas lift potential, multilateral gas well deliverability, and production forecastingDelivers an all-inclusive product with real-world answers for training or quick look up solutions for the entire petroleum production spectrum

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Customer Reviews

Dr. Boyun Guo is well known for his contributions to the energy industry in multiphase flow in pipe systems and horizontal well engineering. He is currently a Professor at the University of Louisiana at Lafayette in the Petroleum Engineering Department and Director of the Center for Optimization of Petroleum Systems (COPS). He has over 35 years of work experience in the oil and gas industry and academia, and has previously worked for Daqing Petroleum Administrative Bureau, New Mexico Tech, New Mexico Petroleum Recovery Research Center, and Edinburgh Petroleum Services. He holds a BS degree in Petroleum Engineering from Daqing Petroleum Institute of China, MS degree in Petroleum Engineering from Montana College of Mineral Science and Technology, and a PhD in Petroleum Engineering from New Mexico Institute of Mining and Technology. Dr. Guo has authored over a hundred papers, served on many association committees, and published 10 books of which 9 of those reside with Elsevier.Xinghui Liu is currently a Senior Completion Engineering Advisor with a major oil company, specializing in well completion and hydraulic fracturing design in shale and tight unconventional plays. He has over 30 years of work experience, and has previously worked for Halliburton, Pinnacle, RES, Indiana University and PetroChina. He possesses in-depth understanding of hydraulic fracture complexities and characteristics across different shale and tight oil/gas plays, and has provided fracture design and execution with a strong focus on post completion evaluation and optimization via integration of diagnostic technologies including microseismic, tiltmeter, and fiber optic DTS/DAS monitoring in many fields worldwide. He earned several degrees in Petroleum Engineering, including a BS from Daqing Petroleum Institute, an MS from Montana Tech, and a PhD from the University of Oklahoma. He has authored and co-authored numerous technical papers on a variety of subjects including fracture design and optimization, fracture monitoring, fracture performance evaluation, geochemical modeling, acidizing, formation damage control, gravel packing, and Non-Darcy flow analysis.Xuehao Tan is currently a Senior Modeling and Simulation Engineer specializing on acidizing modeling, temperature simulation in the wellbore and reservoir, applications of coiled tubing and acid fracturing. Previously, he worked for Texas A&M University as a Research Assistant in their Petroleum Engineering department. Xuehao earned a BE in Engineering Mechanics from Tsinghua University, a MS and PhD both in Petroleum Engineering and both from Texas A&M University. He is active in SPE and serves as technical reviewers for several journals related to production engineering. He has published many SPE papers on temperature simulation, acidizing modeling and related topics. Xuehao was awarded the Faculty Award of Excellence from Texas A&M University in 2013.

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