



# Petroleum Production Engineering, A Computer-Assisted Approach

*Boyun Guo PhD, P.E., William C. Lyons Ph.D., Ali Ghalambor*

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**Petroleum Production Engineering, A Computer-Assisted Approach** Boyun Guo PhD, P.E., William C. Lyons Ph.D., Ali Ghalambor

Petroleum Production Engineering, A Computer-Assisted Approach provides handy guidelines to designing, analyzing and optimizing petroleum production systems. Broken into four parts, this book covers the full scope of petroleum production engineering, featuring stepwise calculations and computer-based spreadsheet programs. Part one contains discussions of petroleum production engineering fundamentals, empirical models for production decline analysis, and the performance of oil and natural gas wells. Part two presents principles of designing and selecting the main components of petroleum production systems including: well tubing, separation and dehydration systems, liquid pumps, gas compressors, and pipelines for oil and gas transportation. Part three introduces artificial lift methods, including sucker rod pumping systems, gas lift technology, electrical submersible pumps and other artificial lift systems. Part four is comprised of production enhancement techniques including, identifying well problems, designing acidizing jobs, guidelines to hydraulic fracturing and job evaluation techniques, and production optimization techniques.

\*Provides complete coverage of the latest techniques used for designing and analyzing petroleum production systems

\*Increases efficiency and addresses common problems by utilizing the computer-based solutions discussed within the book

\* Presents principles of designing and selecting the main components of petroleum production systems

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