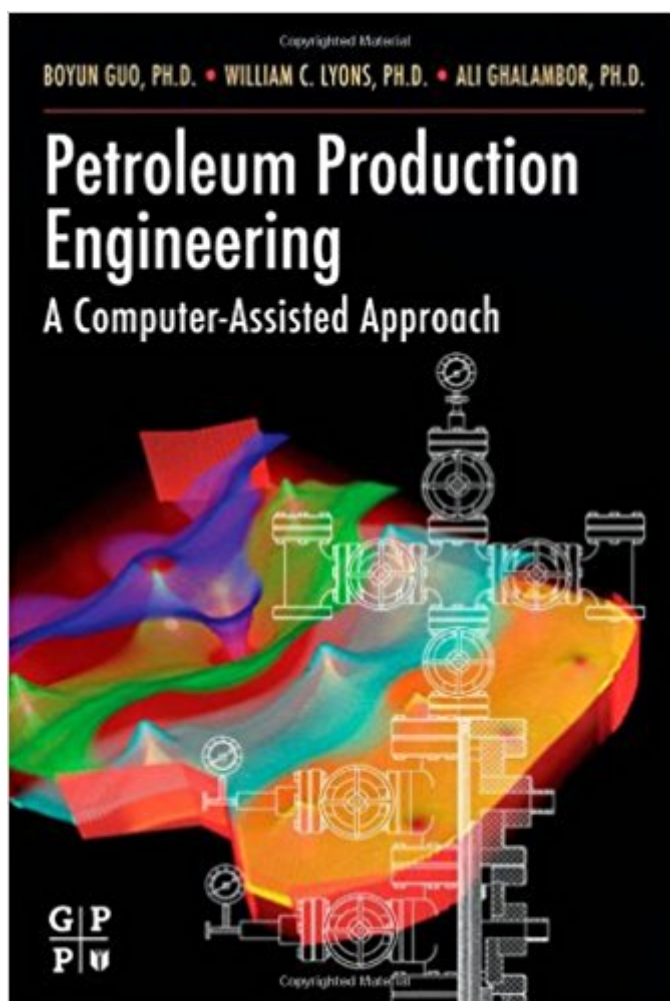


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# Petroleum Production Engineering, A Computer-Assisted Approach



## Synopsis

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

## Book Information

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## Customer Reviews

Provides practical guidelines to designing, analyzing and optimizing petroleum production systems

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.

thank a lot for it because of you i now graduated from engineering classes

Brand new - but Did not have the CD with it

I think what makes this book excellent for the engineer in the field, is the fact that you have the equations, derivations and methods explained in a very friendly manner, and the examples are included in the excel programs which make it easy to follow it and change the data to adapt the problems to different situations. I totally recommend the book. One recommendation would be to include more artificial lift methods in a new edition.

The beginning of this book isn't terrible and some of the chapters actually have very good information. HOWEVER the excel sheets that are in the book which you can find online using google are not always correct. If you would like to see how he has solved the problems go to the excel sheet and highlight the columns/rows in white. He wrote the program then changed the color of the font to white so you cannot see the actual text. Highlight it and try to follow as best as you can. Some of the programs written use other sheets on excel to which you will have to locate.

I wouldn't use this book to LEARN production engineering. This book is a great reference and has every correlation and equation you'd probably need, but to really learn what is going on you should

probably take a class or pick up another book. The excel programs it comes with are a great resource for common calculations too.

The computer assisted approach was the entire point of this book, wasn't it? Imagine my disappointment when the text shipped without a CD... imagine further disappointment when I failed to resolve the issue for me. I wrote to the publisher, and received the response quoted below: Elsevier is no longer producing CD with our print product as we have migrated everything to companion website's. Specifically this companion site for Petroleum Production Engineering, A Computer-Assisted Approach can be found here [...]

It is a great product. Fits into our product block. low price and high quality. arrive on time, Satisfied. my family need it ,

I give the book five stars for being an excellent reference tool. What sets the book apart is that the information is practical. The authors did a very nice job in including only relevant information concerning applied production design concepts and equations. They also did well in referencing the material. I will also compliment the book on being well organized and packing in a wealth of information. A huge bonus is that the book comes with excel files that contain the solutions to the designs/calculations from the book - about time someone did this.

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