



Applied Drilling Circulation Systems: Hydraulics, Calculations and Models

By Boyun Guo , Gefei Liu

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Used to clean the borehole, stabilize rock, control pressures, or enhance drilling rates, drilling fluids and their circulation systems are used in all phases of a drilling operation. These systems are highly dynamic and complicated to model until now. Written by an author with over 25 years of experience, *Applied Drilling Circulation Systems: Hydraulics, Calculations and Models* provide users with the necessary analytical/numerical models to handle problems associated with the design and optimization of cost-effective drilling circulation systems.

The only book which combines system modeling, design, and equipment, *Applied Drilling Circulation Systems: Hydraulics, Calculations and Models* provides a clear and rigorous exposition of traditional and non-traditional circulation systems and equipment followed by self contained chapters concerning system modelling applications. Theories are illustrated by case studies based on the author's real life experience.

The book is accompanied by a website which permits readers to construct, validate, and run models employing Newtonian fluids, Bingham Plastic fluids, Power Law fluids, and aerated fluids principles. This combination book and website arrangement will prove particularly useful to drilling and production engineers who need to plan operations including pipe-tripping, running-in casing, and cementing.

- In-depth coverage of both on- and offshore drilling hydraulics.
- Methods for optimizing both on- and offshore drilling hydraulics.
- Contains problems and solutions based on years of experience.

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Editorial Review

About the Author

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.

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