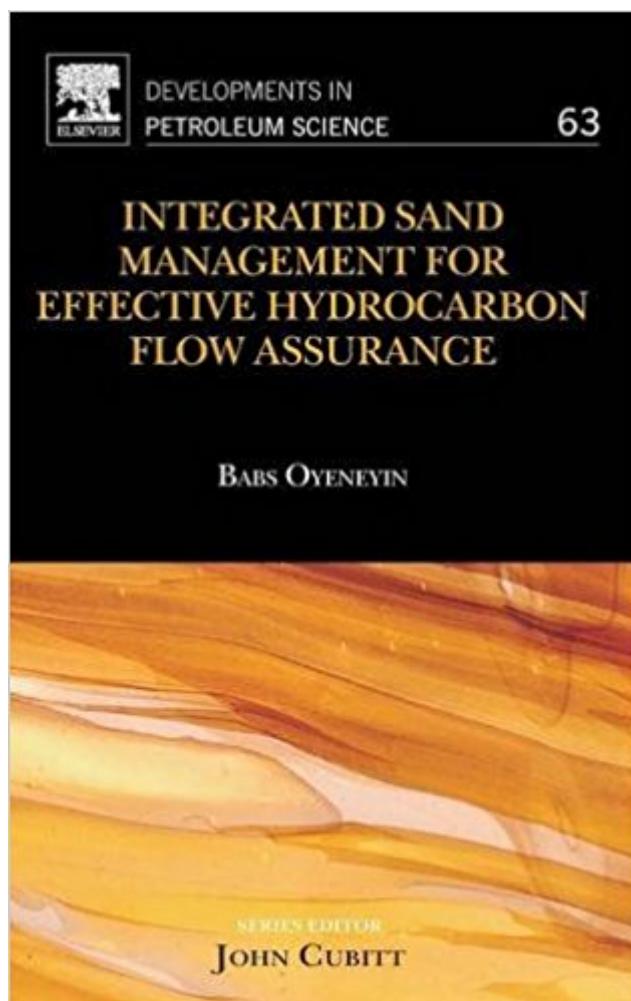


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Integrated Sand Management For Effective Hydrocarbon Flow Assurance, Volume 63 (Developments In Petroleum Science)





Synopsis

This Handbook provides solutions to the fundamental issues associated with wells and reservoirs experiencing sanding problems, especially in deepwater environments. Sand Management is a massive challenge for the petroleum industry as it extends its exploration activities to new frontiers. Challenging ultra deepwater, High Pressure-High Temperature (HP-HT) and Arctic environments require engineers to drill more complex wells and manage more complex reservoirs, the majority of which are prone to massive sand production. Covering such fundamentals as how to maximize individual wells and field development performance, as well as how to minimize operational cost, non-productive time and guarantee flow assurance across the entire composite production system from reservoirs through the wellbore to the topside and flow lines, this handbook explains that the biggest challenge facing operators is the shortage of sand management personnel and helps companies realize the value of their assets. Reference for knowledge transfer and skills development in sand management for effective flow assurance Emphasis on HP-HT and deepwater environments Meets the needs of new and practising engineers alike as well as non-technical personnel supporting the offshore industry

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[RGU] and Managing Director of Intelligent Flow Solutions - A specialist technology company that provides integrated real-time flow assurance management, engineering solutions and capacity building/specialist skills development to the worldwide oil/gas industry. A Chartered Engineer and recognised specialist in the field of deepwater development, multiphase fluid dynamics, fluid systems management, integrated sand management, produced water management, and sand face completion design, well engineering/management, oil/gas reservoir performance and production optimisation, the areas of which he has published over 100 technical papers. His MSc and PhD are in Petroleum Engineering from Heriot-Watt University in Edinburgh. With a background in mechanical engineering and over 35 years of integrated professional experience spanning industry, consultancy, technology facilitation, research and development, and professional training in the oil industry, he has worked as a field engineer and in academia. As a consultant he has worked on a broad range of well completion, sand management, fluids planning and optimisation , Well Planning/ management and field development projects in the UK, Europe, Libya, Japan, South Africa and Nigeria.

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