



Springer Handbook of Petroleum Technology

By Chang Samuel Hsu

Springer-Verlag GmbH Dez 2017, 2017. Buch. Condition: Neu. Neuware - This handbook provides a comprehensive but concise reference resource for the vast field of petroleum technology. Built on the successful book 'Practical Advances in Petroleum Processing' published in 2006, it has been extensively revised and expanded to include upstream technologies. The book is divided into four parts: The first part on petroleum characterization offers an in-depth review of the chemical composition and physical properties of petroleum, which determine the possible uses and the quality of the products. The second part provides a brief overview of petroleum geology and upstream practices. The third part exhaustively discusses established and emerging refining technologies from a practical perspective, while the final part describes the production of various refining products, including fuels and lubricants, as well as petrochemicals, such as olefins and polymers. It also covers process automation and real-time refinery-wide process optimization. Two key chapters provide an integrated view of petroleum technology, including environmental and safety issues. Written by international experts from academia, industry and research institutions, including integrated oil companies, catalyst suppliers, licensors, and consultants, it is an invaluable resource for researchers and graduate students as well as practitioners and professionals. 1238 pp....



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