



The Chemistry and Technology of Petroleum, Fourth Edition (Chemical Industries)

By James G. Speight

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Refineries must not only adapt to evolving environmental regulations for cleaner product specifications and processing, but also find ways to meet the increasing demand for petroleum products, particularly for liquid fuels and petrochemical feedstocks. **The Chemistry and Technology of Petroleum, Fourth Edition** offers a 21st century perspective on the development of petroleum refining technologies.

Like its bestselling predecessors, this volume traces the science of petroleum from its subterranean formation to the physicochemical properties and the production of numerous products and petrochemical intermediates. Presenting nearly 50 percent new material, this edition emphasizes novel refining approaches that optimize efficiency and throughput. It includes new chapters on heavy oil and tar sand bitumen recovery, deasphalting and dewaxing processes, and environmental aspects of refining, including refinery wastes, regulations, and analysis. The text also features revised and expanded coverage of instability and incompatibility, refinery distillation, thermal cracking, hydrotreating and desulfurization, hydrocracking, and hydrogen production.

A unique, well-documented, and forward-thinking work, this book continues to present the most complete coverage of petroleum science, technology, and refining available. **The Chemistry and Technology of Petroleum, Fourth Edition** provides an ideal platform for scientists, engineers, and other professionals to achieve cleaner and more efficient petroleum processing methods.

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Editorial Review

Review

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— In *Anticancer Research*, Vol. 27, No. 3B, May/June 2007

About the Author

James G. Speight earned a BSc and a PhD in chemistry from the University of Manchester, England. Since 1998, he has been employed at CD&W Inc. as a consultant/author/lecturer on energy and environmental issues. Dr. Speight has more than 40 years of experience in areas associated with the properties and recovery of reservoir fluids. His work has also focused on the environmental effects and remediation technologies related to fossil fuel and synthetic fuel processing. Dr. Speight is the author of more than 400 publications, reports, and presentations and has taught more than 70 courses. He is the author and coauthor of more than 50 books and bibliographies related to fossil fuels, synthetic fuels, biofuels, fuel processing, and environmental issues. He is also the recipient of several awards.

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Ernest Baker:

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