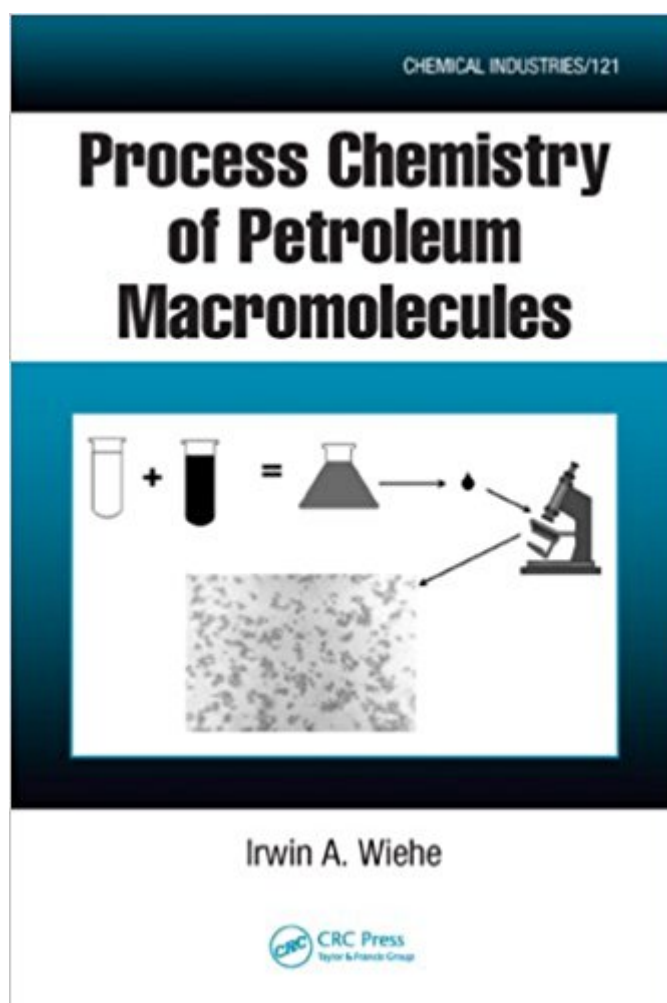


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Process Chemistry Of Petroleum Macromolecules (Chemical Industries)



Synopsis

Although there is a shortage of light petroleum, there is plenty of heavy petroleum rich in macromolecules available, creating an increasing interest for processes that can convert heavy oils to light oils. *Process Chemistry of Petroleum Macromolecules* provides the scientific basis for such processes, presenting methods to determine improvement potential. Topics include characterization, thermal kinetics, phase behavior, and separation. Revealing that the science of petroleum macromolecules is simpler and more exciting than imagined, it also discusses macromolecules that self-associate, liquid crystalline phases, reactions triggered by phase separation, and both dispersed and dissolved solutes.

Book Information

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Customer Reviews

I read this book over and over with high interest. It is very useful for my current job. We have found at first two areas where the approaches of the author can be applied immediately in the following subjects: 1- Pay more attention in processing the crude mixtures which are soluble. 2- Try to increase the conversion of the visbreaking so as the thermal cracking units in our refineries. Our future project is to install a data base for the blendable crude oils. I highly recommend this book to other colleagues in the refineries.

This book presents a wealth of information on characterizing and processing heavy oils and

petroleum resids, with emphasis on insight into mechanisms of fouling that is closely related to processing of these materials, diagnosis of causes, and ultimate development of fouling mitigation remedies. It is a valuable reference book highly recommended to technical and professional personnel working in refineries and R&D on improving refinery energy efficiency and down time by alleviating fouling.

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