



Asphaltenes: Chemical Transformation during Hydroprocessing of Heavy Oils (Chemical Industries)

Jorge Ancheyta, Fernando Trejo, Mohan Singh Rana

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During the upgrading of heavy petroleum, asphaltene is the most problematic impurity since it is the main cause of catalyst deactivation and sediments formation. Exploring many aspects related to asphaltene composition and conversion, **Asphaltenes: Chemical Transformation during Hydroprocessing of Heavy Oils** highlights the various changes that these heavy and complex molecules undergo during catalytic hydroprocessing.

After defining and characterizing asphaltene structure, the book examines the composition of petroleum and the processes and catalysts for upgrading heavy oils. It then details the characterization of asphaltene after hydroprocessing and the effect of reaction conditions on their structures. The authors also analyze the deactivation and characterization of spent hydroprocessing catalysts as well as the role played by asphaltene. They cover sediments formation during hydroprocessing and the role of asphaltene on it. The final chapters describe the hydrocracking and kinetics of asphaltene and the fractionation of heavy crudes and asphaltene.

Due to the increasing production of heavy crude oils, asphaltene has become one of the most studied molecules. This book provides a deep understanding of how asphaltene transform during hydroprocessing, offering insight on designing catalysts and processing for the upgrading of heavy oils.

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