1. Record Nr. UNINA9910480433703321

Titolo	Asphaltenes [[electronic resource]] : Fundamentals and Applications / / edited by Maite Subirana, Eric Y. Sheu
Pubbl/distr/stampa	New York, NY : , : Springer US : , : Imprint : Springer, , 1995
ISBN	1-4757-9293-X
Edizione	[1st ed. 1995.]
Descrizione fisica	1 online resource (XII, 246 p.)
Disciplina	660
Soggetti	Chemical engineering Inorganic chemistry Organic chemistry Polymers Materials science Industrial Chemistry/Chemical Engineering Inorganic Chemistry Organic Chemistry Polymer Sciences Characterization and Evaluation of Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	I. Colloidal Properties of Asphaltenes in Organic Solvents -- II. Sulfur and Nitrogen Molecular Structures in Asphaltenes and Related Materials Quantified by XANES Spectroscopy -- III. Solubility and Phase Behavior of Asphaltenes in Hydrocarbon Media -- IV. A Unified View of the Colloidal Nature of Asphaltenes -- V. The Effects of Asphaltenes on the Chemical and Physical Characteristics of Asphalt -- VI. Asphalt Emulsion for Environmental Coating and Encapsulation -- VII. Potential of Ultrasonic Generators for Use in Oil Wells and Heavy Crude Oil/Bitumen Transportation Facilities -- VIII. New Methods of Petroleum Sludge Disposal and Utilization.
Sommario/riassunto	Asphaltenes have traditionally been viewed as being extremely complex, thus very hard to characterize. In addition, certain fundamental properties of asphaltenes have pre- viously been

inaccessible to study by traditional macroscopic methods, further limiting understanding of asphaltenes. These limitations inhibited development of descriptions regarding the microscopic structure and solution dynamics of asphaltenes. However, a variety ofmore recent studies have implied that asphaltenes share many chemical properties with the smaller, more tractable components of crude oils. Recent measurements have indicated that asphaltene molecular weights are not as !arge as previously thought, perhaps in the range of 600 to I 000 amu. In addition, new experimental methods applied to asphaltene chemical structures have been quite revealing, yielding a broad understanding. Conse- quently, the ability to relate chemical structure with physical and chemical properties can be developed and extended to the understanding of important commercial properties of asphaltenes. This book treats significant new developments in the fundamentals and applications of asphaltenes. In the first section ofthe book, new experimental methods are described that characterize asphaltene structures from the molecular to colloidallength scale. The colloidal properties are understandable in terms of asphaltene chemical structures, especially with regard to the heteroatom impact on bonding. However, quantitative measurements of the of asphaltene self-association still need to be determined. In the second section of enthalpy this book, the fundamental understanding of asphaltenes is related riirectly to asphaltene utilization.

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Record Nr.	UNIORUON00150029
Autore	DAVIDSON, Olga M.
Titolo	Comparative literature and classical Persian poetics : Seven essays / Olga M. Davidson
Pubbl/distr/stampa	Costa Mesa, : Mazda, 2000
ISBN	15-685-9098-9
Descrizione fisica	XVI, 154 p. ; 22 cm.
Classificazione	IRA VI ABX
Soggetti	LETTERATURA PERSIANA - PERIODO GHAZNAVIDE - POESIA - FERDOWSI
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia