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| Nota di contenuto | Surfactants -- Surfactants in Petroleum Industry -- Surfactants as Foaming Agents -- Surfactants as Emulsification Agents for IFT Reduction -- CO2 Philic Surfactants and Switchable Amine-based Surfactants for Foam Applications -- Modeling of Surfactant Flooding in Porous Medium -- Challenges and Future Trends in Surfactant EOR. |
| Sommario/riassunto | This book provides a concise treatise on the use of surfactants in enhanced oil recovery (EOR), including information on key types of surfactants and their respective applications in the wider petroleum industry. The authors discuss carbon dioxide EOR, alkaline-surfactant-polymer flooding strategies, and the use of surfactants as a means of reducing interfacial tension, while also paying special attention to the challenges involved in using surfactants for enhanced oil recovery, such as the difficult issue of surfactant adsorption on reservoir rock. All chapters highlight and are based on the authors' own laboratory-scale case studies. Given its content, the book offers a valuable asset for graduate students of petroleum and chemical engineering, as well as researchers in the field of chemical enhanced oil recovery. It will also be of interest to professionals involved in enhanced industrial oil recovery. |

