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Nota di contenuto	chapter 1. Surface chemistry and geochemistry of hydraulic fracturing -- chapter 2. Capillary forces in fluid flow in porous solids (shale formations) -- chapter 3. Surface active and fracture-forming substances (soaps and detergents, et cetera) -- chapter 4. Surface chemistry of solid surfaces : adsorption-desorption characteristics -- chapter 5. Solid surface characteristics: wetting, adsorption, and related processes -- chapter 6. Colloidal systems : wastewater treatment: hydraulic fracking technology -- chapter 7. Foams and bubbles : formation, stability and application -- chapter 8. Emulsions and microemulsions : oil and water mixtures.
Sommario/riassunto	Unique in focus, Surface Chemistry and Geochemistry of Hydraulic Fracturing examines the surface chemistry and phenomena in the hydrofracking process. Under great scrutiny as of late, the physico-chemical properties of hydrofracking are fully detailed and explained. Topics include the adsorption-desorption of gas on the shale reservoir

surface and relevant waste-water treatment dependent on various surface chemistry principles. The aim of this book is to help engineers and research scientists recognize the basic surface chemistry principles related to this subject. Written by a long-time expert in the field, this book presents an unbiased account of the hard science and engineering involved in a resource that is gaining growing attention within the community.