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Sommario/riassunto	<p>Gasification provides a series of workflow process fundamentals set within authentic contexts and case studies while exploring the pathways for gasification optimization, the effect of fuel blending in gasification systems, and the use of Computational Fluid Dynamics to describe said processes. Comprehensive in its coverage, this book allows engineering graduate students, advanced undergraduates, researchers and industry practitioners to further advance their own gasification strategy and understanding. Key features: Compares gasification with pyrolysis and combustion. Covers broad gasification mechanisms, experimental procedures, and numerical modelling. Provides techno-economic analysis applied to gasification systems coupled with risk analysis. Describes state-of-the-art processes concerning the co-firing of ammonia, coal and biomass.</p>