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APPLICATIONS: Natural Gas Formation and Extraction -- Copyright -- Contents -- Contributors -- About the editors -- Preface -- Reviewer acknowledgments -- I - Natural gas formation and properties -- 1 - Introduction to natural gas importance and characteristics -- 1. Introduction -- 2. A historical overview of natural gas -- 3. Natural gas sources -- 4. Natural gas composition -- 5. Natural gas classification -- 5.1 Classification of natural gas according to chemical composition -- 5.2 Classification of natural gas according to origin source -- 6. The phase behavior of natural gas -- 7. Physical and chemical properties of natural gas -- 8. Importance of natural gas for energy generation and material production -- 9. Conclusion and future outlooks -- Abbreviations and symbols -- References -- 2 - Natural gas resources, emission, and climate change -- 1. Introduction -- 2. Natural gas characteristics -- 3. Natural gas origin -- 3.1 Thermogenic process -- 3.2 Biogenic process

Sommario/riassunto

This volume, 'Advances in Natural Gas: Natural Gas Formation and Extraction', explores the chemical and engineering aspects of natural gas production. Edited by experts from Shiraz University's Department of Chemical Engineering, the book provides a comprehensive overview of natural gas formation, its properties, and extraction techniques. Topics include the historical development, sources, and composition of natural gas, as well as its classification and phase behavior. The book also addresses the importance of natural gas in energy generation and materials production, along with discussions on methane emissions and climate change. Aimed at professionals and researchers in chemical engineering and energy sectors, the book serves as a valuable resource for understanding the complexities and developments in natural gas extraction.