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Spectroscopic Analysis Of Coal Liquids (Coal Science And Technology Vol 12)



Synopsis

This book comprehensively and critically reviews the analysis of coal-derived liquids by modern spectroscopic techniques. All the major techniques used in the analysis of coal liquids are included with detailed chapters on mass, infrared, ultraviolet and luminescence, nuclear magnetic resonance, and electron spin resonance spectroscopy. Each method is critically evaluated and the limitations and problems that the complexity of typical coal liquids impose on each technique are discussed. The book also includes a discussion of solvent fractionation, chromatographic separations, and the pyrolysis and hydropyrolysis of coal liquids. A detailed review of the composition of coal liquids from various coal liquefaction processes and a brief introduction to coal science are also included. This is the only comprehensive coverage of the spectroscopic analysis of coal liquids. It also contains a wealth of information on the composition and properties of coal liquids produced from various coal types under a variety of processing conditions. These two features alone should make it essential reading for all professionals involved in liquid fuels research.

Book Information

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