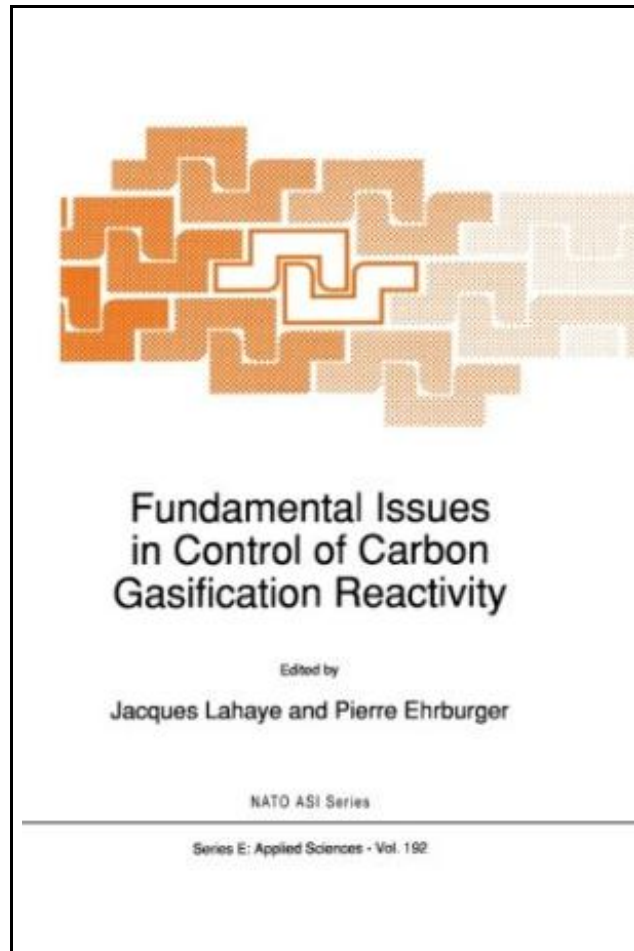


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Reviews

Basically no phrases to clarify. It really is rally fascinating throgh reading time. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Anabel Zemlak)

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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the NATO Advanced Research Workshop, Cadarache, Saint Paul lex Durance, France, July 30-August 3, 1990 | During the last decade there has been a renewed interest in under standing from a fundamental point of view the gasification of carbon. Basi cally there are two major issues in controlling the reactivity of carbon: i) reduction of the gasification rate of carbon materials in hostile environment ii) increase of the gasification rate in order to utilize carbonaceous compounds more effectively. Although these two objectives look somewhat contradictory, they are part of the general topics of understanding gasification reactivity of carbon. Refractory applications of carbon in furnace linings, seals and vanes, as well as the use of carbon-carbon or carbon-ceramic composites in struc tures able to withstand corrosion at high temperature require a better understanding of the fundamentals involved in carbon-oxidizing gas (O₂, CO, H₂O) reactions. Furthermore a great interest of aluminium producers is extending the lifetime of carbon electrodes in alumina electrolysis which primarily depends on reducing their consumption rates by air or carbon dioxide. Proper control of gasification reactions is also of prime importance in manufacturing carbonaceous adsorbents like granular activated carbon clothes of high adsorption characteristics. The balance between increase of porosity and decrease in mechanical strength during activation is critical for developing new porous types of carbon materials in particular for carbon clothes and this can only be achieved by a careful control of the gasification reaction. | Chemical Kinetics of Carbon and Char Gasification.- ¹³C/¹²C Isotope Spectrometry in the Study of Carbon Reactivity.- Mass Transport and Carbon Reactivity at High Temperature.- Oxidation of Single Char Particles in an Electrodynamic Chamber.- The CO/CO₂ Ratio in the Products of the Carbon-Oxygen Reaction.- Oxy-Reactivity of Coal at...



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