



Nonmetallic Materials and Composites at Low Temperatures (Paperback)

By A. F. Clark, Richard Reed, Gunther Hartwig

Springer-Verlag New York Inc., United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Cryogenics is an emerging technology filled with promises. Many cryogenic systems demand the use of nonmetallics and composites for adequate or increased performance. Thermal and electrical insulations, potting for superconducting magnets mechanical stability, and composite structures appear to be some of the most significant applications. Research on nonmetallics at cryogenic temperatures has not progressed to the degree of research on metals. Nor can room temperature research be extrapolated to low temperatures; most polymers undergo a phase transformation to the glassy state below room temperature. Research by producers, for the most part, has not been practical, because, except for LNG applications, the market for large material sales is not imminent. There are, however, many government-stimulated developmental programs. Research on nonmetallics thus is dictated by development project needs, which require studies oriented toward prototype hardware and specific objectives. As a result, research continuity suffers. Under these conditions, periodic topical conferences on this subject are needed. Industry and university studies must be encouraged. Designers and project research material specialists need to exchange experiences and data. Low-temperature-oriented...



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