1. Record Nr. UNINA9910739419703321

Titolo	Polymers at cryogenic temperatures / / Susheel Kalia, Shao-Yun Fu, editors
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	3-642-35335-5
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (viii, 292 pages) : illustrations (some color)
Collana	Gale eBooks
Altri autori (Persone)	FuShao-Yun KaliaSusheel
Disciplina	620.192
Soggetti	Low temperature engineering Polymers - Thermal properties Polymers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	From the Contents: Cryogenic Processing: State of the art, Advantages and Applications -- Cryogenic properties of polymer materials -- Friction & wear of polymer materials at cryogenic temperatures -- Mechanical behaviour of polymer composites at cryogenic temperatures -- Interlaminar Delamination Fracture and Fatigue of Woven Glass Fiber Reinforced Polymer Composite Laminates at Cryogenic Temperatures -- The behaviour of polymer based dielectrics under cryogenic conditions -- Medical applications of poly(vinyl alcohol) cryogels.
Sommario/riassunto	Kalia and Fu's novel monograph covers cryogenic treatment, properties and applications of cryo-treated polymer materials. Written by numerous international experts, the twelve chapters in this book offer the reader a comprehensive picture of the latest findings and developments, as well as an outlook on the field. Cryogenic technology has seen remarkable progress in the past few years and especially cryogenic properties of polymers are attracting attention through new breakthroughs in space, superconducting, magnetic and electronic techniques. This book is a valuable resource for researchers, educators, engineers and graduate students in the field and at technical institutions.