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Titolo	Elastomeric polymers with high rate sensitivity : applications in blast, shockwave, and penetration mechanics // edited by Roshdy George Barsoum ; contributors, Alireza Amirkhizi [and fifty seven others]
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Nota di contenuto	Cover; Title page; Copyright Page; Contents; List of Contributors; Preface; Acknowledgments; 1 - History of High Strain Rate Elastomeric Polymers (HSREP) Application; References; 2 - Phase Separated Microstructure and Structure-Property Relationships of High Strain Rate Elastomeric Polyureas; 2.1 - Introduction; 2.2 - Nanostructure and Dynamics of Bulk-Polymerized Polyureas; 2.2.1 - Coarse-Grained Molecular Level Analysis of Polyurea Demixing; 2.3 - Influence of Thermal Treatments on Phase Separation and Dynamics; 2.4 - Influence of Mixed Soft Segments on Phase Separation and Dynamics 3.3.2.1 - Construction of E-glass/polyurea/stainless Steel Joints
Sommario/riassunto	Recent investigations into blast-resistant properties of polyureas and other multi-phase polymeric elastomers indicate that they can dissipate broad bands of frequencies such as those encountered in blast events. In this unique book, Elastomeric Polymers with High Rate Sensitivity, Dr. Roshdy Barsoum and expert contributors bring together the cutting-edge testing methodologies, material properties, and critical design data for engineers seeking to deploy this technology. Where conventional methods of resisting blast, shockwave, and penetration are expensive, time-consuming and impractical,

