



# **Elastomeric Polymers with High Rate Sensitivity: Applications in Blast, Shockwave, and Penetration Mechanics**

*Roshdy George S Barsoum*

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## **Elastomeric Polymers with High Rate Sensitivity: Applications in Blast, Shockwave, and Penetration Mechanics** Roshdy George S Barsoum

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, high-strain rate elastomeric polymers (HSREP) can be cheaper, quicker, and more easily applied to new and old materials alike. This book aids both military and civilian engineers in a range of applications, from buildings and tunnels to lightweight armor, ships, and aircraft.

The book features constitutive models for software developers designing with these advanced polymers, as well as a discussion of the mechanisms of interaction between high-strain rate polymers and other materials. It also thoroughly covers HSREP engineering methods to achieve other unique properties, such as fireproofing.

- Material properties and design data included to enable engineers to successfully deploy this technology
- Cheaper, quicker, and more easily implemented than traditional methods of increasing blast and ballistic performance
- A how-to guide to the engineering of high strain rate elastomeric polymers to achieve other useful properties, such as fireproofing

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