

Terminal Ballistics & Impact Physics

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The field of terminal ballistics & impact physics describes the interaction of projectiles, fragments or other kinetic energy threats with various systems, subsystems and materials. The field is generally looking at penetration mechanics and loading of targets and projectiles. High strain rate properties of materials make up a significant area of focus for this field. In addition, methods to understand the complex interaction between rigid bodies under collision are important. This involved the sciences of mechanics, dynamics, materials, thermal effects and shock propagation in various phase states of materials.

The International Ballistics Society is interested in all areas and applications of terminal ballistics and impact physics. The Society promotes innovative methods for analysis as well as better understanding of the physics and phenomena associated with impacts. Categories of armor and anti-armor have been traditionally used although applications extend well beyond defense and security into such areas as space systems, industrial safety and others. The science can support a better understanding of weapon design as well as protection for systems based on spacecraft, aircraft, watercraft, vehicles, buildings, structures or individuals.