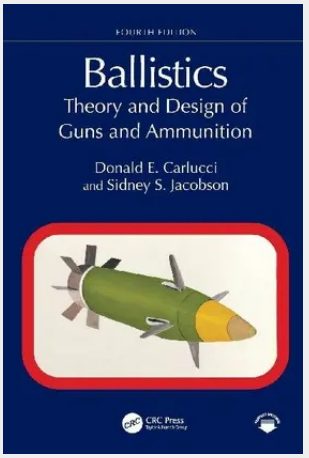
Carlucci / Jacobson

Ballistics

Theory and Design of Guns and Ammunition



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Ballistics examines the analytical and computational tools for predicting a weapon's behavior in terms of pressure, stress, and velocity, demonstrating their applications in ammunition and weapons design. It includes updated and revised equations, end-of-chapter problems, case studies, and practical examples. Explaining the physics of a gun launch, the book describes the behavior of the propelling charge that moves the projectile through the gun tube and the necessary methods to calculate how the projectile will fly. The new edition features a new chapter on closed vessel experimentation and analysis, which discusses closed bomb testing to incorporate new propellants into interior ballistics designs. It covers the mathematical fundamentals that are key to developing a safe and reliable gun system. With its thorough coverage of interior, exterior, and terminal ballistics, this new edition continues to be the standard resource for ballistics experts and researchers studying the technology of guns and ammunition and designing state-of-the-art propellants. Instructors will be able to utilize a Solutions Manual for their course.

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