1. Record Nr. UNINA9910409992903321

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Titolo	Terminal ballistics / / Zvi Rosenberg, Erez Dekel
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-46612-4
Edizione	[3rd ed. 2020.]
Descrizione fisica	1 online resource (410 pages)
Disciplina	623.51 623.516
Soggetti	Ballistics Mechanics Shock (Mechanics) - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part 1. Experimental and Numerical Techniques -- Chapter 1. Experimental Techniques -- Chapter 2. Material Models for Numerical Simulations -- Part 2. Penetration Mechanics -- Chapter 3. Rigid Penetrators -- Chapter 4. Plate Perforation -- Chapter 5. Eroding Penetrators -- Part 3. Defeat Mechanisms -- Chapter 6. Defeat by High Strength Targets -- Chapter 7. Asymmetric Interactions.
Sommario/riassunto	This book comprehensively discusses essential aspects of terminal ballistics, combining experimental data, numerical simulations and analytical modeling. This new, 3rd edition reflects a number of recent advances in materials science, such as the use of polyurea layers on metallic plates in order to improve their ballistics. In addition, more data and analyses are now available on dwell and interface defeat in ceramic tiles coated with polymers, and are presented here. Lastly, the new edition includes new results, numerical and empirical, concerning the DIF issue in brittle solids, as well as the “upturn” phenomenon in the stress–strain curves of ductile solids.The author also added a new analysis of concrete penetration experiments which accounts for the scaling issue in this field. This is a new,and important, addition which we are happy to announce. They also added some new insights into the interaction of EEP’s and FSP projectiles with metallic plates. Throughout

the book, the authors demonstrate the advantages of the simulation approach in terms of understanding the basic physics behind the phenomena investigated, making it a must-read for all professionals who need to understand terminal ballistics.