

Applied High-speed Plate Penetration Dynamics

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Preface. 1. Introduction.- Part 1. Some Common Models. 2. Localized Interaction Approach. 3. Cavity Expansion Approximations. 4. Power-Law Relationship between Impact, Residual, and Ballistic Limit Velocities.- Part 2. Shape Optimization of Impactors. 5. Towards Shape Optimization of Impactors. 6. Shape Optimization of Impactors Penetrating into Ductile Shields.7. Shape Optimization of Impactors Penetrating into Concrete Shields. 8. Optimum Shape of Impactors Against Fibre-Reinforced Plastic Laminates. 9. Area Rules for Penetrating Impactors.- Part 3. Optimization of Non-Homogeneous Shields. 10. Optimization of Multi-Layered and Spaced Ductile Shields.11. Optimization of Two-Component Ceramic Shields.- Appendix 1. Notations. Appendix 2. Properties of the Integral Used in Penetration Dynamics Modeling.- References.- Index. EAN/ISBN : 9781402042393 Publisher(s): Springer Netherlands Discussed keywords: Platten Format: ePub/PDF Author(s): Ben-dor, Gabi - Dubinsky, Anatoly - Elperin, Tov

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