

Impact Mechanics of Ceramic Armor Xianfeng Zhang
Impact Mechanics of Ceramic Armor *Xianfeng Zhang*

impact mechanics of ceramic armor dwell and interface defeat provides a thorough overview of the impact dynamics of projectiles and targets crack propagation and damage evolution of ceramic armor during interface defeat and penetration the book provides experimental techniques and results of ceramic armor subjected to projectile damage covers the mechanics of damage of ceramic armor under impact load and analyzes the failure processes alongside corresponding theoretical models constitutive models and material parameters between projectile and target are explained techniques for optimum ceramic armor design are outlined and applications of interface defeat in the field of light armor are provided explains the impact dynamics of projectiles and targets crack propagation and damage evolution of ceramic armor summarizes experimental techniques and discusses the results of ceramic armor subjected to projectile damage discusses the mechanisms of damage of ceramic armor under impact load and interface defeat observing the failure process and providing corresponding theoretical models provides insights into how to design ceramic composite armor that will withstand certain projectiles

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