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陶瓷 / 复合材料航空装甲撞击响应的数值仿真

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NUMERICAL SIMULATION OF IMPACT RESPONSE OF ADVANCED COMPOSED CERAMIC/COMPOSITE AERO ARMOUR

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摘要

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摘要 用求解接触撞击问题的方法对陶瓷 / 复合材料装甲的撞击响应和失效机理进行数值仿真。着重讨论了接触撞击界面的搜索与确定、接触撞击力的计算、以及失效准则及其处理技巧等 3 个问题。计算结果与试验结果进行了比较, 符合良好。

关键词: 接触载荷 数据仿真 复合材料

Abstract: The impact response and failure mechanism of the composed ceramic/composite armour are simulated numerically by use of the solution method to contact-impact problems. Emphasis is put on the searching and determination of the contact-impact interface between the projectile and armour, the algorithm for the contact-impact force calculation, the establishment of failure criterion and its implementation strategy. The computational results are compared and agreed well with those data resulted from test.

Keywords: contactload data simulation composites

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