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Dynamic Deformations Monitoring Of Composites Subjected to Ballistic Impact by Fiber Bragg Grating Sensors

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Aim of this study is to investigate the capability of Fiber Bragg Grating (FBG) sensors to detect and monitor the dynamic deformations of polymer composites during the ballistic impact against different projectiles. The composite dynamic penetration phenomena has been captured and analyzed by high speed camera. In addition, Fiber Bragg Grating (FBG) sensors bonded on the back of the composite panel coupled with a proper interrogation system have been used to monitor the dynamic deformations during the impact. The FBG dynamic response was found related to the composite resistance allowing to discriminate the different observed penetration behavior against the various adopted projectiles.

Ключевые слова:

Содержание.

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