

Accepted Manuscript

A new way for revealing the damage evolution of impacted CFRP laminate under compression-compression fatigue load based on thermographic images

Yin Li, Wei Zhang, An-bo Ming, Zheng-wei Yang, Gan Tian

PII: S0263-8223(17)30009-0
DOI: <http://dx.doi.org/10.1016/j.compstruct.2017.05.009>
Reference: COST 8518

To appear in: *Composite Structures*

Received Date: 2 January 2017
Revised Date: 29 March 2017
Accepted Date: 2 May 2017



Please cite this article as: Li, Y., Zhang, W., Ming, A-b., Yang, Z-w., Tian, G., A new way for revealing the damage evolution of impacted CFRP laminate under compression-compression fatigue load based on thermographic images, *Composite Structures* (2017), doi: <http://dx.doi.org/10.1016/j.compstruct.2017.05.009>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

A new way for revealing the damage evolution of impacted CFRP laminate under compression-compression fatigue load based on thermographic images

Yin Li, Wei Zhang, An-bo Ming, Zheng-wei Yang*, Gan Tian

Xi'an Research Inst. of Hi-Tech, Xi'an 710025, PR China

Yin Li

Email: DIYLLLLY@163.com

Wei Zhang

Email: zhangweihuaiyu@163.com

An-bo Ming

Email: 79607672@qq.com

Corresponding author: Zheng-wei Yang

Email: yangzhengwei1136@163.com, Tel: +86 15829937537

Gan Tian

Email: tiangan_2012@163.com

Abstract

A new way is proposed in this work to reveal the damage evolution law of impacted carbon fiber reinforced polymer (CFRP) laminate under compression-compression fatigue load based on thermographic images. Firstly, several specimens are began with impact testing with different energies, followed by compression-compression fatigue testing with different load amplitudes and monitored by infrared camera. Then, the thermographic images gathered by infrared camera are analyzed. Finally, the

Download English Version:

<https://daneshyari.com/en/article/4911698>

Download Persian Version:

<https://daneshyari.com/article/4911698>

[Daneshyari.com](https://daneshyari.com)