

Non-destructive testing of wind turbine blades

To improve the safety of wind turbine blades non-destructive testing techniques using acoustic waves are being developed. To detect delaminations within the laminates of the ...

difficult conditions. To help ensure the integrity of wind turbines when in-service, it is important to apply efficient and reliable nondestructive testing methods. This paper focuses on the ...

S. Furuya et al.: Imagification Technology and Deep Learning Accelerating Defect Detection in Non-Destructive Testing for Wind Turbine Blades FUITSU Sci. Tech. ., ol. 55, No. 2 (219) AI ...

The use of a digital infrared as a non-destructive evaluation thermography camera (NDE) tool was explored in two separate wind turbine blade fatigue tests. The first test was a fatigue test of ...

Non-destructive testing is a broad category of inspection methods that technicians use to highlight cracks, corrosion, and irregularities that are too small to see with the naked ...

The objective of this study is review of different NDT techniques, which are used, or could be used for non-destructive testing of wind turbine blades, taking into account the complicated structure ...

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Renewable energy plays a vital role in power industry to fulfil the growing demand of power in industrial sector and other utilities. Wind energy is an attractive power source because it is ...

Asset Integrity Monitoring of Wind Turbine Blades With Non-Destructive Radar Sensing Citation for published version: Blanche, J, Mitchell, D, Gupta, R, Tang, A & Flynn, D 2020, Asset ...

This paper presents the design of field implementable ultrasonic system for nondestructive testing (NDT) of wind turbine blades using air coupled ultrasonic transducers which makes this...

Wind turbine inspection, including wind turbine blade inspection, is a critical activity to ensure the integrity and performance of the wind turbine blades. Wind turbine blade inspection methods ...

15th Asia Pacific Conference for Non-Destructive Testing (APCNDT2017), Singapore. [ID227] 1 Improved Inspection of Composite Wind Turbine Blades with Accessible Advanced Ultrasonic ...

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The digital infrared thermography as a nondestructive test (NDT) tool was used to detect defects and monitor the health of wind turbine blades. The main objectives in this paper are to review ...

Therefore, non-destructive testing (NDT) of wind turbine blades is necessary to identify surface and internal defects, ensuring the sustainable operation of the wind turbines. ...

To keep the wind turbine blades in continuous operation, testing, inspecting, and monitoring technologies of the wind turbines blades, including mechanical property testing, non ...

DOI: 10.1115/1.1409560 Corpus ID: 110257565; Application of Infrared Thermography Nondestructive Testing during Wind Turbine Blade Tests @article{Rumsey2001ApplicationOI, ...

Application of different ultrasonic techniques for non-destructive testing of the wind turbine blades Author: Jasiuniene, Elena; Raisutis, Renaldas; Sliteris, Reimondas; Volei is, Algirdas, Voleisis, ...

non-destructive testing of wind turbine blades, taking into account the complicated structure of the wind turbine blades as well as possibility to make non-destructive testing in harsh on-site ...

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