

2017

Research Area 4: Nondestructive Evaluation (NDE) Techniques

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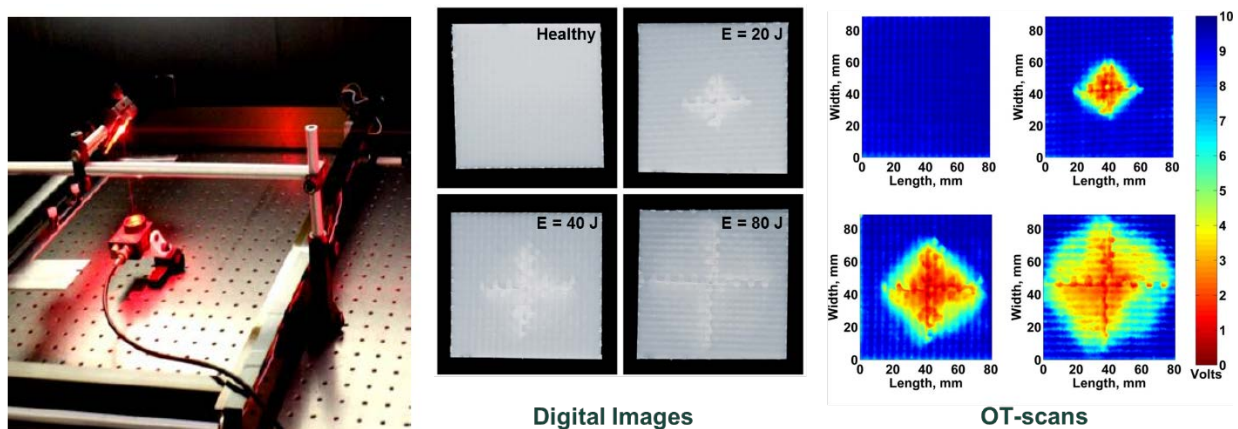
VLSJ Lab, Mechanical Engineering Department, Georgia Southern University, "Research Area 4: Nondestructive Evaluation (NDE) Techniques" (2017). *Research Areas*. 4.
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VLSJ Research Area 4. Nondestructive evaluation (NDE) techniques

In vehicle lightweight structures and joining lab various Non-destructive Evaluation (NDE) and Structural Health Monitoring (SHM) techniques are being used to provide robust and cross-validated measurements. To perform cutting-edge researches and reliable experimental activities and NDE tests, the group has also established collaborations with academic institutes and industries across the globe.

One the technique that are currently being used by to group to evaluate the damage extent of composite structures is optical transmission scanning (OTS), shown in the Figure.



The OTS-1000 is a high resolution (lateral), rapid, and non-contact optical transmission scanning system specifically designed for quantitative NDE of such components. Materials with low attenuation in either ultraviolet (FUV to NUV), visible, or infrared (NIR to FIR) spectra are suitable for inspection.