Y. Okabe LAB.

[Structural Health Diagnostic Systems Based on Optoacoustic Methods]

Department of Mechanical and Biofunctional Systems

Structural Health Diagnostics

Department of Systems Innovation, School of Engineering

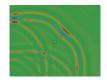
http://www.okabeylab.iis.u-tokyo.ac.jp/

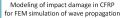
Lightweight composite structures have been applied to airplanes and automobiles. For the health diagnostics of the structures, we are developing structural health monitoring systems with optical fiber ultrasonic sensors and non-destructive inspection techniques using laser ultrasonics. In addition, we are attempting to construct an inspection system applicable to extreme environments.

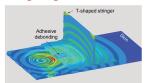
Lightweight Composite Structures

CFRP stiffened panel

Structural Health Monitoring Using Guided Waves







Detection of debonding damage in a CFRP skin/stringer bonded structure

Non-destructive Inspection System Applicable to Extreme Environments

