

Seminar im Rahmen des GRK 2078

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Date: Wednesday, August 29, 2018
Time: 13:30h

Location: Bldg. 50.36 (R 010)

Title: **Metrological Characterization of CFRP-Damages Using Optical Lock-In Thermography**

Abstract

Due to the increasing application of CFRP in mass application, an economic repair process gains importance. As the typical repair process starts with the defect detection, the accuracy of the measurement system is a limiting factor of the repair process. Optical lock-in thermography is a promising approach for non-destructive defect detection.

Since the phase images contain a superposition of depth information, the determination of the defects' depth is a challenge. Due to lateral heat flows, the measurement of the defects' geometry includes uncertainties. Based on the complex wave field, this resresentation introduces a method to determine the thermal properties, the defects' depth and geometry in CFRP-structures using lock-in thermography.

All interested listeners are cordially invited to join the audience.

Prof. Dr.-Ing. Thomas Böhlke
(Speaker of GRK 2078)