Common tools for quantitative pulse and step-heating thermography - Part II: experimental validation

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Abstract

Several advanced pre- and post-processing tools have been developed over the last two decades, to enhance the performances of pulse thermography, in terms of defect detection and characterization. Two of the most efficient techniques are the Thermographic Signal Reconstruction, including a recent development using the polynomial coefficient images, and the early detection. This work, which shows how these tools, commonly used for pulse-heating, are complementary and applicable to step-heating, is in two parts: the first one, reported in a companion article, is dedicated to the theoretical and analytical demonstration; the second one, reported here, is the matching experimental investigation.

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