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Chapter X Active Infrared Thermography

Active infrared thermography refers to the group of methods employed to inspect the integrity of materials or systems through the use of an external energy source and an infrared detector. The external stimulus can be of many forms such as warm or cold air, heat pulses, periodic thermal waves, or mechanical oscillations, e.g. ultrasounds.

CHAPTER X ACTIVE INFRARED THERMOGRAPHY TECHNIQUES FOR

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Active thermography is an advanced nondestructive testing procedure, which uses a thermography measurement of a tested material thermal response after its external excitation. This principle can be used also for non-contact infrared non-destructive testing (IRNDT) of materials.

Infrared non-destructive testing of materials - Wikipedia

Active infrared thermography refers to the group of methods employed to inspect the integrity of materials or systems through the use of an external energy source and an infrared detector.

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In recent years, active infrared (IR) thermography has emerged as a widely used method for nondestructive testing. Thermography offers noncontact, wide area detection of subsurface defects, and can be used as an alternative or complement to conventional inspection technologies. In this paper, basic principles of active IR thermography are presented.

Introduction to NDT by Active Infrared Thermography¹

Active infrared thermography (1) is a technique whereby a transient heat perturbation is used to evaluate the temperature response of a given part. The temperature history, observed with the appropriate equipment, depends on

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the internal structure of the part leading to the detection of possible defects having abnormal thermal properties.

INFRARED THERMOGRAPHIC INSPECTION BY INTERNAL TEMPERATURE ...

This chapter deals with the use of infrared thermography to monitor the behaviour of a material under load events. Two types of loads are considered: bending and impact. During each event, thermoelastic and/or thermoplastic effects are visualized with the infrared camera through acquisition of thermal images in time sequence.

Infrared Thermography in the Evaluation of Aerospace ...

Introduction Infrared thermography (IT) is a nondestructive evaluation (NDE) method with an increasing span of applications 1,2,3 . To summarize briefly the principle of operation, in the active ...

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(PDF) Using lock-in infrared thermography for the ...

Active thermography is the induction of a heat flow by energetically exciting a test object. The heat flow is influenced by interior material layers and defects. These inhomogeneities can be captured on the surface by high-precision infrared cameras.

Infrared cameras for active thermography | InfraTec

Abstract This is an overview of active thermal imaging methods in medical diagnostics using external thermal stimulation. In this chapter, several clinical cases diagnosed using the active dynamic thermography method, ADT, are presented. Features of this technology are discussed and main advantages underlined.

Active Dynamic Thermography in Medical Diagnostics ...

8.1 Instrumentation for passive and active infrared thermography 8.2

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Solutions to emissivity problems 8.3
Atmosphere 8.4 Remote sensing Part II -
Active Thermography CHAPTER 9 -
ACTIVE THERMOGRAPHY 9.1 Introduction
9.2 Thermal wave theory 9.3 Pulsed
thermography (PT) 9.4 Stepped heating
(long pulse) 9.5 Lockin thermography

Book: Infrared Technology for NonDestructive Testing

Thermographic inspection refers to the nondestructive testing of parts, materials or systems through the imaging of the thermal patterns at the object's surface. Strictly speaking, the term thermography alone, refers to all thermographic inspection techniques regardless of the physical phenomena used to monitor the thermal changes. For instance, the application of a temperature sensitive ...

Thermographic inspection - Wikipedia

A thermographic camera (also called an infrared camera or thermal imaging

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camera or infrared thermography) is a device that forms a heat zone image using infrared radiation, similar to a common camera that forms an image using visible light. Instead of the 400–700 nanometre range of the visible light camera, infrared cameras operate in wavelengths as long as 14,000 nm (14 μm).

Thermographic camera - Wikipedia

Active infrared thermography is increasingly used for nondestructive testing of various materials. Properties of this method are creating a unique possibility to utilize it for inspection of composites. In the case of active thermography, an external energy source is usually used to induce a thermal contrast inside tested objects.

Evaluation of fiber reinforced polymers using active ...

Active thermography is an imaging procedure for non-destructive material testing. A heat flow is induced by an

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energetic excitation of the test object, which can be done in a transmissive or a reflective setup. The resulting heat flow is influenced by interior material layers and defects.

Non-destructive and contact-free ... - infratec-infrared.com

More than 30 different high-class infrared cameras for various thermographic demands are waiting for you in the thermography section. The professional and universal camera section offers a professional top-class model with the HD infrared camera series VarioCAM ® High Definition. The high-end thermography system section also has a high-resolution infrared camera in store for you with the ...

Infrared Cameras - Thermographic Camera Manufacturer InfraTec

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This chapter introduces the application
of infrared (IR) thermography in land
mine detection. IR thermography in
general and for remotely detecting
buried land mines in particular, seems to
be a... This chapter introduces the
application of infrared (IR) thermography
in land mine detection.

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