

Infrared Thermography For Thermo-fluid-dynamics

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Infrared thermography is a measurement technique that enables to obtain non intrusive measurements of surface temperatures. One of the interesting features of this technique is its ability to measure a full two dimensional map of the surface temperature and for this reason it has been widely used as a flow visualization technique. Since the temperature measurements can be extremely accurate it is possible, by using a heat flux sensor, also to measure convective heat transfer coefficient distributions on a surface making the technique de facto quantitative. This book, starting from the basic theory of infrared thermography and heat flux sensor guides, both the experienced researcher and the young student, in the correct application of this powerful technique to various practical problems. A significant number of examples and applications are also examined in detail. EAN/ISBN : 9783642295089 Publisher(s): Springer, Berlin Format: ePub/PDF Author(s): Astarita, Tommaso - Carlomagno, Giovanni Maria

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