



Infrared Thermography: Errors and Uncertainties

Waldemar Minkina, Sebastian Dudzik

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In *Infrared Thermography*, the authors discuss the sources of uncertainty, including how to quantify these sources, associated with the use of thermal imagers. This book explains the common misunderstandings in the interpretation of temperature measurements, and provides a metrological evaluation of commercially available infrared cameras. It suggests how to best estimate the accuracy of thermal imaging instruments, whilst considering the level of accuracy attributed to measurements from these thermal imagers.

Key features:

- Begins with an introduction to uncertainties and radiance terms before moving onto the issues surrounding thermal imaging.
- Deals with the basic issues of thermal imager measurements such as the law of heat exchange by radiation and emissivity.
- Describes a typical processing algorithm of the measurement path for an example infrared camera.
- Discusses measurement error analysis of a thermal imaging system.
- Considers the results of simulation research of thermography uncertainty.
- Includes an accompanying website which hosts MATLAB® code.

Infrared Thermography is primarily aimed at quantitative thermographers, and manufacturers, vendors and users of thermal imagers. This book is also of interest to senior undergraduate and postgraduate students across a range of disciplines such as electrical, mechanical and civil engineering, computer science, and biomedicine.

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