



# Theory and Practice of Infrared Technology for Nondestructive Testing

By Xavier P. Maldague

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The book includes fundamental concepts of theory, instrumentation, and experimental practice as well as practical applications. An important chapter setting the book apart from other publications describes the properties of materials and presents case studies from industry. In addition, a program called IRNDT accompanies the book and is available on the Wiley ftp site. The program includes an image bank that can be used to test the principles covered in the book.

- \* All chapters end with summaries, problems, and questions.
- \* Authored by an acknowledged expert in the field.
- \* Material draws on case studies to illustrate major points.

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### **Bibliography**

- Sales Rank: #1487832 in Books
- Published on: 2001-04-30
- Original language: English
- Number of items: 1
- Dimensions: 9.43" h x 1.46" w x 6.40" l, 2.45 pounds
- Binding: Hardcover
- 704 pages



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### Editorial Review

#### Review

"A textbook to be used in a curriculum of advanced material engineering, with enough practical aspects covered to support associated laboratory sessions as well." (SciTech Book News, Vol. 25, No. 3, September 2001)

#### From the Back Cover

An indispensable resource for the use of infrared thermography in industrial nondestructive testing

Machine vision, especially infrared thermography, provides industries with a more efficient and cost-effective method of detecting production flaws than traditional means of human inspection. The trend in industry today is toward inspecting and evaluating products in a nondestructive manner. For that purpose, infrared thermography has become a prime means of ensuring quality without damaging product. This comprehensive reference for professionals provides total coverage of infrared thermography inspection, theory, and practice in nondestructive testing (NDT).

Xavier Malague provides a comprehensive introduction to Thermographic Nondestructive Testing (TNDT) and its current applications, followed by major sections on the fundamental concepts, passive and active thermography, and case studies in industry. A complementary package called IRNDT is available on the Internet for use with problems at the end of each chapter or as a tool for image processing. Detailed coverage includes:

- \* Introduction to thermal emission and heat transfer
- \* Infrared sensors and optics fundamentals
- \* Images and image analysis
- \* Experimental concepts
- \* Active thermography and quantitative analysis: pulsed, step, lockin, and vibrothermography
- \* Case studies in passive and active thermography

#### About the Author

XAVIER P. V. MALDAGUE is Professor of Electrical and Computing Engineering at Université Laval in Québec City, Canada. He is the author of two other books on the subject: Nondestructive Evaluation of Materials by Infrared Thermography and Infrared Methodology.

### Users Review

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##### Thomas Rasmussen:

Playing with family inside a park, coming to see the ocean world or hanging out with pals is thing that usually you have done when you have spare time, in that case why you don't try thing that really opposite from that. One particular activity that make you not sensation tired but still relaxing, trilling like on roller coaster you are ride on and with addition associated with. Even you love Theory and Practice of Infrared Technology for Nondestructive Testing, you can enjoy both. It is excellent combination right, you still want to miss it? What kind of hang-out type is it? Oh seriously its mind hangout guys. What? Still don't obtain it,

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