



 Get Print Book

Infrared Thermal Imaging: Fundamentals, Research and Applications

By Michael Vollmer, Klaus-Peter Möllmann



Download



Read Online

Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter Möllmann

This richly illustrated hands-on guide is designed for researchers, teachers and practitioners. The huge selection of examples taken from science, basic teaching of physics, practical applications in industry and a variety of other disciplines spanning the range from medicine to volcano research allows readers to pick those that come closest to their own individual task at hand. Following a look at the fundamentals of IR thermal imaging, properties of the imaging systems, as well as basic and advanced methods, the book goes on to discuss IR imaging applications in teaching, research and industry. Specific examples include thermography of buildings, microsystems and the rather new field of IR imaging of gases.

Impartially written by expert authors in the field from a renowned applied science institution, who are in the unique position of having both experience in public and private research and in teaching, this comprehensive book can be used for teaching beginners in the field as well as providing further education to specialized staff, students and researchers.



[Download Infrared Thermal Imaging: Fundamentals, Research a ...pdf](#)



[Read Online Infrared Thermal Imaging: Fundamentals, Research ...pdf](#)

Infrared Thermal Imaging: Fundamentals, Research and Applications

By Michael Vollmer, Klaus-Peter M?llmann

Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann

This richly illustrated hands-on guide is designed for researchers, teachers and practitioners. The huge selection of examples taken from science, basic teaching of physics, practical applications in industry and a variety of other disciplines spanning the range from medicine to volcano research allows readers to pick those that come closest to their own individual task at hand. Following a look at the fundamentals of IR thermal imaging, properties of the imaging systems, as well as basic and advanced methods, the book goes on to discuss IR imaging applications in teaching, research and industry. Specific examples include thermography of buildings, microsystems and the rather new field of IR imaging of gases.

Impartially written by expert authors in the field from a renowned applied science institution, who are in the unique position of having both experience in public and private research and in teaching, this comprehensive book can be used for teaching beginners in the field as well as providing further education to specialized staff, students and researchers.

Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann **Bibliography**

- Sales Rank: #1048178 in Books
- Published on: 2010-10-04
- Original language: English
- Number of items: 1
- Dimensions: 9.70" h x 1.40" w x 7.00" l, 2.80 pounds
- Binding: Hardcover
- 612 pages

 [Download Infrared Thermal Imaging: Fundamentals, Research a ...pdf](#)

 [Read Online Infrared Thermal Imaging: Fundamentals, Research ...pdf](#)

Editorial Review

Review

...

This hardcover, richly illustrated hands-on guide is specifically written in an understandable style for practitioners in the field of IR imaging, for physics and science teachers and for researchers. The authors ? both professors at the University of Applied Sciences Brandenburg (Germany) ? comment: ?There is today the paradox of more cameras being sold worldwide than there are technicians understanding the physics behind them, let alone being able to properly interpret the colourful images generated.?

...

Even the specialised reader finds extensive background knowledge of a great deal of aspects in a wide field of application domains. The specific contents of the cases discussed give readers, as technicians, an additional tool which they can use to select cases that suit their everyday needs.

...

Jan Wijers

Mikroniek 1/2013

From the Back Cover

This richly illustrated hands-on guide is designed for researchers, teachers and practitioners. The huge selection of examples taken from science, basic teaching of physics, practical applications in industry and a variety of other disciplines spanning the range from medicine to volcano research allows readers to pick those that come closest to their own individual task at hand. Following a look at the fundamentals of IR thermal imaging, properties of the imaging systems, as well as basic and advanced methods, the book goes on to discuss IR imaging applications in teaching, research and industry. Specific examples include thermography of buildings, microsystems and the rather new field of IR imaging of gases.

Impartially written by expert authors in the field from a renowned applied science institution, who are in the unique position of having both experience in public and private research and in teaching, this comprehensive book can be used for teaching beginners in the field as well as providing further education to specialized staff, students and researchers.

About the Author

Michael Vollmer received his PhD degree for the studies of clusters on surfaces, and his habilitation on optical properties of metal clusters from the University of Heidelberg, Germany. Later assignments were with the University of Kassel, Germany, the university of California in Berkeley, USA, as well as with various institutions in the United States and Asia during sabbaticals. His research interests include atmospheric optics, spectroscopy, infrared thermal imaging, and the didactics of physics. Professor Vollmer has authored one science book and co-authored a scientific monograph and about 140 scientific papers.

Klaus-Peter M?llmann received his PhD from the Humboldt University of Berlin, Germany, studying strongly doped narrow band semiconductors at low temperatures and later, for his habilitation, MCT photo detectors. He subsequently held positions with the Humboldt University and with several businesses in industry. Professor M?llmann's research interests include MEMS technology, infrared thermal imaging, and spectroscopy. He is the co-author of about 100 scientific and didactical papers.

Both authors are professors of experimental physics at the University of Applied Sciences in Brandenburg, Germany.

Users Review

From reader reviews:

Ashley Paul:

Book is actually written, printed, or created for everything. You can learn everything you want by a reserve. Book has a different type. As it is known to us that book is important factor to bring us around the world. Beside that you can your reading ability was fluently. A reserve Infrared Thermal Imaging: Fundamentals, Research and Applications will make you to possibly be smarter. You can feel a lot more confidence if you can know about everything. But some of you think that will open or reading a new book make you bored. It is far from make you fun. Why they may be thought like that? Have you searching for best book or acceptable book with you?

Bertie Lewis:

The reserve with title Infrared Thermal Imaging: Fundamentals, Research and Applications has a lot of information that you can study it. You can get a lot of profit after read this book. This specific book exist new know-how the information that exist in this book represented the condition of the world now. That is important to yo7u to understand how the improvement of the world. This kind of book will bring you in new era of the globalization. You can read the e-book with your smart phone, so you can read that anywhere you want.

Susan Bondurant:

Can you one of the book lovers? If so, do you ever feeling doubt if you are in the book store? Try to pick one book that you never know the inside because don't judge book by its cover may doesn't work at this point is difficult job because you are afraid that the inside maybe not as fantastic as in the outside look likes. Maybe you answer could be Infrared Thermal Imaging: Fundamentals, Research and Applications why because the great cover that make you consider with regards to the content will not disappoint you. The inside or content is definitely fantastic as the outside or cover. Your reading 6th sense will directly make suggestions to pick up this book.

Michael Fischer:

This Infrared Thermal Imaging: Fundamentals, Research and Applications is great publication for you because the content which can be full of information for you who else always deal with world and get to make decision every minute. This kind of book reveal it information accurately using great organize word or we can claim no rambling sentences inside it. So if you are read this hurriedly you can have whole data in it. Doesn't mean it only gives you straight forward sentences but challenging core information with attractive delivering sentences. Having Infrared Thermal Imaging: Fundamentals, Research and Applications in your hand like finding the world in your arm, data in it is not ridiculous 1. We can say that no book that offer you

world inside ten or fifteen second right but this book already do that. So , this can be good reading book. Hey Mr. and Mrs. busy do you still doubt this?

**Download and Read Online Infrared Thermal Imaging:
Fundamentals, Research and Applications By Michael Vollmer,
Klaus-Peter M?llmann #5Z0WF4YN1O9**

Read Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann for online ebook

Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann books to read online.

Online Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann ebook PDF download

Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann Doc

Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann Mobipocket

Infrared Thermal Imaging: Fundamentals, Research and Applications By Michael Vollmer, Klaus-Peter M?llmann EPub