



Industrial Tomography: Systems and Applications (Woodhead Publishing Series in Electronic and Optical Materials)

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Industrial Tomography: Systems and Applications thoroughly explores the important tomographic techniques of industrial tomography, also discussing image reconstruction, systems, and applications.

The text presents complex processes, including the way three-dimensional imaging is used to create multiple cross-sections, and how computer software helps monitor flows, filtering, mixing, drying processes, and chemical reactions inside vessels and pipelines.

Readers will find a comprehensive discussion on the ways tomography systems can be used to optimize the performance of a wide variety of industrial processes.

- Provides a comprehensive discussion on the different formats of tomography
- Includes an excellent overview of image reconstruction using a wide range of applications
- Presents a comprehensive discussion of tomography systems and their application in a wide variety of industrial processes

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Editorial Review

Review

"...an up to date compendium that will be invaluable to those involved in process tomography research and those looking to utilise tomographic methods for process measurement either as a research tool or for industrial application."--**Johnson Matthey Technology Review, *Industrial Tomography***

From the Back Cover

Tomography is a fast, non-destructive visualization method which provides a detailed picture of the internal structure or workings of an imaged object. Tomography systems can be used to optimize the performance of a wide variety of industrial processes, producing effective imaging of complex internal structures.

Part One reviews key tomographic techniques and modalities for industrial applications in depth, with chapters focused on Electrical Capacitance Tomography (ECT), Electromagnetic Induction Tomography (EMT), Magnetic Resonance Imaging (MRI), chemical species, x-ray and gamma-ray tomography, and ultrasound and spectroscopic tomography. Part Two goes on to discuss image reconstruction, outlining mathematical concepts, statistical image reconstruction and both hard-field and direct image reconstruction. Finally, Part Three explores systems and applications across a variety of areas, including mineral transportation, bed reactors, mixing processes, oil-gas applications, microreactors, monitoring and food inspection.

Industrial Tomography provides an indispensable guide for applied physicists, materials scientists and engineers working in the photonics and optoelectronics fields, or in such applications industries as the chemical, oil, pharmaceutical, agricultural and security industries.

Mi Wang is Professor of Process Tomography and Sensing at Leeds University, where he leads the On-Line Instrumentation Laboratory (OLIL), promoting and facilitating progress and accessibility of process tomography across engineering science. In addition to leading numerous research projects and inventing four international patents, Professor Wang's extensive experience also includes publishing over one hundred papers and refereeing and guest editing multiple journals.

Users Review

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