Nondestructive Testing of Food Quality. Institute of Food Technologists Series

Description: Nondestructive food testing is at the forefront of automation efforts to ensure the highest quality of safe foods and the efficient incorporation of new processes. The expert contributors to Nondestructive Testing of Food Quality clearly explain present industry advances and how to turn available instrumentation into valuable assets. Readers learn how the competencies of product knowledge, process understanding, instrumentation, principles of sensing, process control, and analytical methodology are required to turn an application into a successful venture.

The broad-based coverage of topics addresses the most dominant sensor technologies keeping in mind the research initiatives necessary to advance these technologies not only in food but also in the pharmaceutical sectors. Topics include:

- ultrasound
- near-infrared spectroscopy
- mid-infrared spectroscopy
- Raman spectroscopy
- particle characterization
- magnetic resonance imaging
- electronic nose
- z-nose
- biosensors
- capacitance sensors

The book fulfills the crucial need for a practical approach to sensor technology that is useful to food industry engineers and scientists. Research scientists in universities and industry consultants will find the experimental and testing protocols to be practical tools. Nondestructive Testing of Food Quality illustrates how achieving stable measurement conditions and applying corrective actions on the process line are greatly dependent not only on the technology and methods applied, but also on the planning and involvement of professionals with multidisciplinary training, including management.

Contents:

1. An Overview of Sensor Technology in Practice: The User's View.

   Christoph Reh.


   Heinz D. Isengard.


   Ibrahim Gulseren and John. N. Coupland.

4. Use of Near Infrared Spectroscopy in the Food Industry.

   Andreas Niemoeller and Dagmar Behmer.

5. Application of Mid-infrared Spectroscopy to Food Processing Systems.

   Colette C. Fagan and Colm P. O Donnell.


   Ramazan Kizil and Joseph Irudayaraj.
7. Particle Sizing in the Food and Beverage Industry.
Darrell Bancarz, Deborah Huck, Michael Kaszuba, David Pugh and Stephen Ward-Smith.

8. Online Image Analysis of Particulate Materials.
Peter Schirg.

Michael J. McCarthy and Young Jin Choi.

10. Electronic Nose Applications in the Food Industry.
Parameswarakuma Mallikarjunan.

Yegermal Atalay, Pieter Verbevon, Steven Vermir and Jeroen Lammertyn.

Malcolm Byars

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