

Food Engineering Series
Series Editor: Gustavo V. Barbosa-Cánovas

Bosoon Park
Renfu Lu *Editors*

Hyperspectral Imaging Technology in Food and Agriculture

 Springer

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Hyperspectral Imaging Technology in Food and Agriculture (Food Engineering Series)



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Hyperspectral imaging or imaging spectroscopy is certainly a novel technology for acquiring and analysing a graphic of a genuine scene by computers and additional devices to be able to obtain quantitative information for quality evaluation and process control. Which means book should supply the engineer and technologist working in research, development, and procedures in the meals and agricultural industry with critical, comprehensive and readily accessible details on the art and technology of hyperspectral imaging technology. The book is divided into three parts, which starts with an overview of the basics of the technology, followed by complete covering of the application form in probably the most researched regions of meats, fruits, vegetables, grains and other food stuffs, which mostly covers food safety and quality along with remote sensing relevant for crop production. Especially lately, hyperspectral imaging offers attracted much research and development interest, as a result rapid scientific and technological advances have increasingly taken place in meals and agriculture, especially on protection and quality inspection, classification and evaluation of a wide range of food items, illustrating the great advantages of utilizing the technology for objective, rapid, nondestructive and automated basic safety inspection along with quality control. Therefore, because the first reference publication in the region, Hyperspectral Imaging Technology in Food and Agriculture targets these recent developments. With the continuous advancement in hardware and software program for picture processing and analysis, the use of hyperspectral imaging offers been prolonged to the basic safety and quality evaluation of meats and create. Hyperspectral Imaging Technology in Meals and Agriculture is written by international peers who have both educational and professional credentials, with each chapter addressing in detail one aspect of the relevant technology, thus highlighting the truly international nature of the work. Image processing and evaluation is the core technique in computer eyesight. It should also provide as an essential reference supply to undergraduate and postgraduate students and experts in universities and study institutions.



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