



Advances in Fruit Processing Technologies (Contemporary Food Engineering)

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One of the main concerns of the food industry is the need for high-quality fresh fruits and fruit products with good sensory quality, long shelf life, and high nutritional value. To meet these demands, new processing technologies are under investigation and development. **Advances in Fruit Processing Technologies** incorporates fundamentals in food processing as well as the advances made in recent years to improve final product quality.

With contributions from a panel of international researchers who present a blend of classical and emerging technologies, the book explores:

- Ozone, ultrasound, irradiation, pulsed electric field, vacuum frying, and high-pressure processing
- Ultraviolet and membrane processing
- Enzymatic maceration, freeze concentration, and refrigeration
- The effect of processing on sensory characteristics and nutritional value
- New trends in modified atmosphere packaging
- The use of fruit juices as a vehicle for probiotic microorganisms
- Prebiotic oligosaccharides as an alternative for dairy products

Incorporating a series of case studies on the application of various technologies, the book reviews their advantages, limitations, successes, and failures. The contributors also examine the implications of food processing technologies on waste production, energy use, and resource requirements. This comprehensive survey of methods for optimizing fruit quality is an ideal resource for those in the fruit and vegetable industry looking for innovations that can improve efficiency, reduce waste, and cut costs.

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Advances in Fruit Processing Technologies (Contemporary Food Engineering) From Brand: CRC Press Bibliography

- Sales Rank: #4652090 in Books
- Brand: Brand: CRC Press
- Published on: 2012-05-18
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.06" w x 6.14" l, 1.70 pounds
- Binding: Hardcover
- 472 pages

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Editorial Review

About the Author

Sueli Rodrigues is currently a professor of food engineering at the Federal University of Ceará, Fortaleza, Brazil, where she teaches and does research on process and product development. She received her degree in chemical engineering from the State University of Campinas in São Paulo, Brazil, and received her PhD in chemical engineering in 2003 from the same university. Dr. Rodrigues has published more than 65 papers in scientific journals. Her research interests include bioprocess, ultrasound, and drying technology, especially with fruit and functional food processing.

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