Anandharamakrishnan / Moses

Emerging Technologies for the Food Industry

Volume 3: ICT Applications and Future Trends in Food Processing

With changing consumer preferences and the focus on developing resilient food systems, food processing is finding its place in key policies, government interventions, global trade, and the overall food and nutritional security. Given this, this new 3-volume collection offers a compilation of emerging and futuristic food processing technologies, presenting fundamental concepts of food technology, trending applications, and a range of interdisciplinary concepts that have found numerous interwoven applications in the food industry. Volume 3 is an exploration of the future of food processing, highlighting certain emerging and disruptive technologies and their gaining influence in the food sector. The first five chapters focus on computers and information technology-linked applications such as CFD modeling, robotics, automation, artificial intelligence, big data, the Internet of Things, cloud computing, and blockchain management for the food industry. The book then details selected interesting concepts that have made phenomenal advancements in recent years: approaches for improved delivery of nutrients, micro- and nanofluidics, novel drying technologies, smart and intelligent packaging, as well as 3D food printing technology. The other volumes in the series are Volume 1: Fundamentals of Food Processing Technology, which presents the basics of food preservation, covering hurdle technology, aspects of minimal processing, ohmic heating of foods, edible coatings, and electromagnetics and allied applications in food processing; and Volume 2: Advances in Nonthermal Processing Technologies, which focuses on the interesting field of nonthermal processing and its applications.

186,50 €
174,30 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781774914281
Medium: Buch
ISBN: 978-1-77491-428-1
Verlag: Apple Academic Press
Erscheinungstermin: 30.04.2024
Sprache(n): Englisch
Auflage: 1. Auflage 2024
Produktform: Gebunden
Gewicht: 866 g
Seiten: 382
Format (B x H): 156 x 233 mm