



Mohammad U.H. Joardder, Monjur Mourshed, Mahadi Hasan Masud

# State of Bound Water: Measurement and Significance in Food Processing

- Covers the characteristics and classification of water and its role in food products and processing
- Comprehensively details the significance of bound water on food preservation
- Discusses methods of measurement and removal of bound water during food processing

This book presents a comprehensive review of the characteristics of bound water and its use in food processing. The significance of bound water in food is discussed in terms of quality, energy consumption and cost. Also included is a thorough discussion on the emerging and appropriate measuring techniques of bound water in food materials. The challenges involved with bound water measurement and strategies for bound water removal during processing are covered in order to establish the appropriate conditions for food preservation. This work presents researchers with a clear, up-to-date concept of bound water and its significance in food processing and preservation. Despite the importance of bound water in food processing, there are limited resources for researchers seeking an in-depth understanding of bound water in food materials. This is the first reference work dedicated to discussing the details of bound water in food materials and its significance in food processes and preservation, from its special characteristics to its energy consumption to its measurement and techniques. State of Bound Water: Measurement and significance in food processing is a singular work in the field of food preservation and processing arena.

1st ed. 2019, XVI, 142 p. 55 illus., 38 illus. in color.

## Printed book

Hardcover

109,99 € | £99.99 | \$139.99

<sup>[1]</sup>117,69 € (D) | 120,99 € (A) | CHF 130,00

## eBook

91,62 € | £79.50 | \$109.00

<sup>[2]</sup>91,62 € (D) | 91,62 € (A) | CHF 104,00

Available from your library or [springer.com/shop](http://springer.com/shop)

## MyCopy <sup>[3]</sup>

Printed eBook for just

€ | \$ 24.99

[springer.com/mycopy](http://springer.com/mycopy)

Order online at [springer.com](http://springer.com) / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com). / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com).

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

