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| Titolo                  | State of Bound Water: Measurement and Significance in Food Processing<br>// by Mohammad U.H. Joardder, Monjur Mourshed, Mahadi Hasan<br>Masud   |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, ,<br>2019  |
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| Edizione                | [1st ed. 2019.]   |
| Descrizione fisica      | 1 online resource (150 pages)   |
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| Soggetti                | Food—Biotechnology<br>Food Science  |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Nota di contenuto       | Chapter 1- Introduction -- Chapter 2- Water in foods -- Chapter 3-<br>Characteristics of bound water -- Chapter 04- Bound Water<br>Measurement Techniques -- Chapter 5- Challenges in Bound water<br>measurement -- Chapter 6- Bound water Removal Techniques --<br>Chapter 7- Significance of Bound water measurement -- Chapter 8-<br>Conclusion -- Index.  |
| Sommario/riassunto      | This book presents a comprehensive review of the characteristics of<br>bound water and its use in food processing. The significance of bound<br>water in food is discussed in terms of quality, energy consumption and<br>cost. Also included is a thorough discussion on the emerging and<br>appropriate measuring techniques of bound water in food materials.<br>The challenges involved with bound water measurement and strategies<br>for bound water removal during processing are covered in order to<br>establish the appropriate conditions for food preservation. This work<br>presents researchers with a clear, up-to-date concept of bound water<br>and its significance in food processing and preservation. Despite the<br>importance of bound water in food processing, there are limited<br>resources for researchers seeking an in-depth understanding of bound<br>water in food materials. This is the first reference work dedicated to<br>discussing the details of bound water in food materials and its<br>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. .

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