

Contents

Part I Drying

Swell-Drying	3
Sabah Mounir, Carmen Téllez-Pérez, Maritza Alonzo-Macías, and Karim Allaf	
DIC-Assisted Hot Air Drying of Post-harvest Paddy Rice	45
Sabah Mounir and Karim Allaf	
DIC-Assisted Parboiling of Paddy Rice	57
Cong Duong Thai and Karim Allaf	

Part II Allergens and Decontamination

Effect of DIC on the Allergenicity of Legume Proteins	69
Carmen Burbano and Carmen Cuadrado	
DIC Decontamination of Solid and Powder Foodstuffs	83
Sabah Mounir, Nsren Albitar, and Karim Allaf	

Part III Extraction

Extraction of Essential Oils and Volatile Molecules	97
Baya Berka-Zougali, Colette Besombes, Tamara Allaf, and Karim Allaf	
DIC Texturing for Solvent Extraction	127
Tamara Allaf, Baya Berka Zougali, Cuong Van Nguyen, Mohamed Negm, and Karim Allaf	
Coupling DIC and Ultrasound in Solvent Extraction Processes	151
Tamara Allaf, Colette Besombes, Valérie Tomao, Farid Chemat, and Karim Allaf	

DIC Intensification of the Mechanical Extraction of Lipids by Pressing	163
Izaskun Pérez, Carlos Bald, Íñigo Martínez de Marañón, and Karim Allaf	
Closing Remarks: Instantaneity and Autovaporization	177
Karim Allaf	
Index	179



<http://www.springer.com/978-1-4614-8668-8>

Instant Controlled Pressure Drop (D.I.C.) in Food Processing

From Fundamental to Industrial Applications

Allaf, T.; Allaf, K. (Eds.)

2014, XIV, 183 p. 48 illus., 37 illus. in color., Hardcover

ISBN: 978-1-4614-8668-8