1. Record Nr. UNINA9910139127403321 Autore **Bouvier Jean-Marie** Titolo Extrusion processing technology: food and non-food biomaterials // Jean-Marie Bouvier and Osvaldo Campanella Pubbl/distr/stampa Chichester, England:,: Wiley Blackwell,, 2014 ©2014 **ISBN** 1-118-54172-3 1-118-54168-5 1-118-54177-4 Descrizione fisica 1 online resource (536 p.) Disciplina 660.6/3 Soggetti Polymers - Extrusion Food - Extrusion Biochemical engineering Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Includes index. Includes bibliographical references at the end of each chapters and Nota di bibliografia index. Nota di contenuto Extrusion Processing Technology Foodand Non-Food Biomaterials; Copyright; Contents: Foreword; Acknowledgements: 1 Generic Extrusion Processes; 1.1 A history of extrusion processing technology; 1.1.1 The introduction of screw extruders; 1.1.2 The generic extrusion process concept; 1.1.3 Extrusion technology in the polymerprocessing industry; 1.1.4 Extrusion technology in the food- and feedprocessing industry; 1.1.5 Extrusion technology in the paper-milling industry; 1.2 Factors driving the development of extrusion processing technology; 1.2.1 Process productivity 1.2.2 Product innovation and functionality1.2.3 Environmentally friendly processing; 1.3 The industrial and economic importance of extrusion processing technology; 1.3.1 In the polymer and plastics industry; 1.3.2 In the food and feed industry; 1.3.3 In the paper milling industry; 1.4 Contents and structure of the book; References; 2 Extrusion Equipment; 2.1 Extruders; 2.1.1 The kinematics of extruders; 2.1.2 The screw-barrel assembly; 2.1.3 The die assembly;

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Sommario/riassunto

The only up-to-date book on this important technology, Extrusion Processing Technology: Food and Non-Food Biomaterials bridges the gap between the principles of extrusion science and the practical ""know how"" of operational engineers and technicians. Written by internationally renowned experts with over forty years of experience between them, this valuable reference for food scientists, food engineers, chemical engineers, and students includes coverage of new, greener technologies as well as case studies to illustrate the practical, real-world application of the principles in various s