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Nota di contenuto	 Cover; Title Page; Copyright; Contents; Introduction; PART 1: Food from Animal Sources; PART 2: Food from Plant Sources; PART 3: Food Ingredients; Bibliography; List of Authors; Index; EULA; I.1. From empiricism to rational technology; I.2. From traditional foods to assembly technology; 1: From Milk to Dairy Products; 2: From Muscle to Meat and Meat Products; 3: From Eggs to Egg Products; 4: From Wheat to Bread and Pasta; 5: From Barley to Beer; 6: From Fruit to Fruit Juice and Fermented Products; 7: From Grape to Wine; 8: From Fruit and Vegetables to Fresh-Cut Products 9: Functional Properties of Ingredients10: Separation Techniques; 1.1. The biochemistry and physical chemistry of milk; 1.2. Biological and physicochemical aspects of milk processing; 1.3. Dairy product technology; 2.1. The biochemistry of muscle (land animals and fish); 2.2. Biological and physicochemical changes in muscle; 2.3. Meat and fish processing technology; 3.1. Chicken egg - raw material in the egg industry; 3.2. Physicochemical properties of the different egg fractions; 3.3. The egg industry: technology and products; 4.1. Biochemistry and

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physical chemistry of wheat

4.2. Biological and physicochemical factors of wheat processing 4.3. The technology of milling, bread making and pasta making; 5.1. Biochemistry and structure of barley and malt; 5.2. Biological and physicochemical factors of processing; 5.3. Brewing technology; 6.1. Fruit development; 6.2. Biochemistry of fruit juice; 6.3. Fruit juice processing: 6.4. Cider: 7.1. Raw materials: 7.2. Winemaking techniques: 7.3. Stabilization and maturation of wine; 7.4. Specific technology; 8.1. Respiratory activity of plants; 8.2. Enzymatic browning 8.3. Unit operations in the production of fresh-cut products: main scientific and technical challenges8.4. Modified atmosphere packaging; 8.5. Conclusion; 9.1. Interactions with water: hydration and thickening properties; 9.2. Intermolecular interactions: texture properties; 9.3. Interfacial properties: foaming and emulsification: 10.1. Proteins and peptides; 10.2. Carbohydrates; 10.3. Lipids; 10.4. Pigments and flavorings; 1.1.1. Milk fat; 1.1.2. Carbohydrates; 1.1.3. Proteins; 1.1.4. Milk minerals; 1.2.1. The stability of fat globules; 1.2.2. Protein stability; 1.3.1. Liquid milk 1.3.2. Fermented milk products 1.3.3. Milk powder; 1.3.4. Cheese; 1.3.5. Cream and butter: 2.1.1. The structure and composition of meat and fish muscle; 2.1.2. Muscle structure; 2.1.3. Proteins; 2.1.4. Carbohydrates; 2.1.5. Vitamins and minerals; 2.2.1. Muscle contraction; 2.2.2. Changes in muscle after death; 2.3.1. Meat processing

technology; 2.3.2. Fish processing technology; 3.1.1. Structure and composition; 3.1.2. Biochemical and physicochemical properties of the protein and lipid fractions of egg; 3.2.1. Interfacial properties; 3.2.2. Gelling properties; 3.3.1. Decontamination of shells

3.3.2. Breaking and separation of the egg white and yolk