1. Record Nr. UNINA9910789582503321 Enzymes in food processing / / edited by Tilak Nagodawithana, Gerald **Titolo** Reed Pubbl/distr/stampa San Diego, California; ; London:,: Academic Press,, 1993 ©1993 1-4933-0165-9 **ISBN** Edizione [3rd ed.] Descrizione fisica 1 online resource (507 p.) Food Science and Technology International Series Collana Disciplina 664/.024 Soggetti Enzymes - Industrial applications Food industry and trade Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover; Enzymes in Food Processing; Copyright Page; Table of Contents; FOOD SCIENCE AND TECHNOLOGY; Preface to the Third Edition; Preface to the Second Edition; Preface to the First Edition; CHAPTER 1. Introduction; GERALD REED; CHAPTER 2. General Characteristics of Enzymes; I. Introduction; II. Primary Features of Enzymes and Enzyme Reactions; III. Nomenclature; IV. Enzyme Kinetics; V. Inhibition; VI. Cofactors; VII. Enzyme Assays and Units; References; CHAPTER 3. Environmental Effects on Enzyme Activity; I. Introduction; II. Effect of pH; III. Effect of the Aqueous Environment V. Effect of Other Environmental Conditions VI. Summary: References: CHAPTER 4. Modern Methods of Enzyme Expression and Design; I. Summary; II. Background; III. Genetic Engineering; IV. Commercialization of Genetically Engineered Products; V. Implications for the Future; Supplemental Reading; References; CHAPTER 5. Immobilized Enzymes; I. Introduction; II. Immobilization Methods; III. Effects of Immobilization; IV. Applications; V. Free or Immobilized Enzyme?; References; CHAPTER 6. Carbohydrases; I. Introduction; II. Food-Processing Carbohydrases; References; CHAPTER 7. Proteases I. IntroductionII. Substrates; III. Enzymes; IV. General Issues in Protein

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## Sommario/riassunto

In the past 35 years, the use of commercial enzymes has grown from an insignificant role in the food industry to an important aspect of food processing. This Third Edition of Enzymes in Food Processing explores recent and extensive changes in the use of enzymes as well as the discovery of new enzymes and their uses. Included in the book is a history of the role of enzymes in food processing, enzyme characterization, a discussion of different classes of enzymes including lipases and proteases, commercial enzyme production, and the processing of particular foods such as meat, vegetables, fruit