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| 1. Record Nr. | UNINA9910480697203321 |
| Titolo | Food Gels [[electronic resource] /] / edited by Peter Harris |
| Pubbl/distr/stampa | Dordrecht : , : Springer Netherlands, , 1990 |
| ISBN | 94-009-0755-9 |
| Descrizione fisica | 1 online resource (X, 476 p.) |
| Collana | Elsevier Applied Food Science Series |
| Disciplina | 500 |
| Soggetti | Science Science, general |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Bibliographic Level Mode of Issuance: Monograph |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | 1. Agar -- 2. Alginates -- 3. Carrageenans -- 4. Casein -- 5. Egg Protein Gels -- 6. Gellan Gum -- 7. Gelatine -- 8. Mixed Polymer Gels -- 9. Muscle Proteins -- 10. Pectin -- 11. Whey Proteins. |
| Sommario/riassunto | The food technologist who wishes to produce a gelled product is faced with two basic options for achieving the desired effect; whether to use a protein or a polysaccharide. Although a gel can be formed by either a protein or a polysaccharide, the resultant gels have different characteristics: • Polysaccharide gels are characterised by their fine texture and transparency which is achieved at a low polymer concentration. They can be formed by heating and cooling, pH adjustment or specific ion addition . • Protein gels are characterised by a higher polymer concentration (5-10%) and are formed almost exclusively by heat denaturation. Before reaching a final decision, the technologist must take a number of factors into consideration. The purpose of this book is to help the technologist in his choice by providing fundamental practical information, in one book, on the properties of gels (and factors which influence them) for both types of biopolymer. To help the reader, each chapter is (wherever possible) organised in the same way so that, for example, information on structure will always be available in section 2. The examples in the Applications section of each chapter are not meant to be exhaustive, but to illustrate the various ways in which the particular polymer can be used to form a gelled product. |

