Record Nr. UNINA9910877433203321 Physical chemistry of macromolecules: basic principles and issues // **Titolo** S.F. Sun Pubbl/distr/stampa Hoboken, N.J., : John Wiley & Sons, c2004 Hoboken, N.J.:,: John Wiley & Sons,, 2004 **ISBN** 1-280-54192-X 9786610541928 0-471-62356-3 0-471-62357-1 Edizione [2nd ed] Descrizione fisica 1 online resource (583 p.) Classificazione 431.9 547/.7045 Disciplina 547.7 547.7045 Soggetti Macromolecules Physical organic chemistry Lingua di pubblicazione Non definito **Formato** Materiale a stampa Livello bibliografico Monografia "A Wiley-Interscience publication" Note generali Includes bibliographical references and indexes Includes bibliographical references and indexes. Nota di bibliografia PHYSICAL CHEMISTRY OF MACROMOLECULES Second Edition: Nota di contenuto CONTENTS; Preface to the Second Edition; Preface to the First Edition; 1 Introduction; 1.1 Colloids; 1.2 Macromolecules; 1.2.1 Synthetic Polymers: 1.2.2 Biological Polymers: 1.3 Macromolecular Science: References; 2 Syntheses of Macromolecular Compounds; 2.1 Radical Polymerization; 2.1.1 Complications; 2.1.2 Methods of Free-Radical Polymerization; 2.1.3 Some Well-Known Overall Reactions of Addition Polymers; 2.2 Ionic Polymerization; 2.2.1 Anionic Polymerization; 2.2.2 Cationic Polymerization; 2.2.3 Living Polymers 2.3 Coordination Polymerization 2.4 Stepwise Polymerization: 2.5 Kinetics of the Syntheses of Polymers; 2.5.1 Condensation Reactions; 2.5.2 Chain Reactions; 2.6 Polypeptide Synthesis; 2.6.1 Synthesis of

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Sommario/riassunto

Integrating coverage of polymers and biological macromolecules into a single text, Physical Chemistry of Macromolecules is carefully structured to provide a clear and consistent resource for beginners and professionals alike. The basic knowledge of both biophysical and physical polymer chemistry is covered, along with important terms, basic structural properties and relationships. This book includes end of chapter problems and references, and also:Enables users to improve basic knowledge of biophysical chemistry and physical polymer chemistry.Explores fully the principles