da Silva / Simões / A.S. Marques

Bio-Joining

Adhesion in Biomaterials, Biological Adhesives, and Biomimetic Adhesive Systems

Bio-joining: Adhesion in Biomaterials, Biological adhesives, and Biomimetic Adhesive Systems explores the use of adhesives in biomedical applications, with a focus on sustainable development. This book introduces the core concepts of adhesive bonding and the different types of biological adhesives, before reviewing applications in dentistry and joint design and engineering. Biodegradability, sustainability, and degradation impact of bioadhesives are recurring themes throughout each chapter, with an emphasis on development and engineering of natural materials. This book is of interest to researchers, engineers and academics working in the fields of materials science, biomedical engineering, and orthopaedics, with a focus on bio-joining and joint development.

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