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**Título:** Polysaccharides. Structural Diversity And Funtional Versatility

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**Precio:** \$4320.00

**Editorial:**

**Año:** 2004

**Tema:**

**Edición:** 1<sup>a</sup>

**Sinopsis**

**ISBN:** 9780824754808

Completely revised and expanded to reflect the latest advancements in the field, Polysaccharides: Structural Diversity and Functional Versatility, Second Edition outlines fundamental concepts in the structure, function, chemistry, and stability of polysaccharides and reveals new analytical techniques and applications currently impacting the cosmetic, medicinal, chemical, and biochemical industries. The authoritative book discusses polysaccharides utilized in medical applications such as polysaccharide-based hydrogels, polysialic acids, proteoglycans, glycolipids, and anticoagulant polysaccharides; renewable resources for the production of various industrial chemicals and engineering plastics polysaccharides; and more.

Contents.

Progress in Structural Characterization of Functional Polysaccharides  
Supramolecular Structure of Polysaccharides  
X-Ray Diffraction Study of Polysaccharides  
Hydrogen Bonds in Cellulose Derivatives  
Enzymatic Methods in Preparative Carbohydrate Chemistry  
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