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Sommario/riassunto	England's Secular Scripture seeks to trace English Islamophobia to its roots in England's Protestant past, and more specifically to its aesthetic and literary rooting in Protestant values. Carruthers argues that English antagonism towards Islam lies in part in the formation of English identities in early modern Reformation Protestantism. The book traces

	the transposing, and secularizing, of Reformation doctrines into a 'Protestant aesthetic'; of simplicity, individualism, and rationalism in the literature of Spenser and Milton. Wordsworth, Hardy, Eliot and Orwell, among others, perpetuate this

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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Author Biography -- Preface -- Acknowledgment and Dedications -- Chapter 1 Introduction -- 1.1 Overview of Polymer Foams -- 1.2 Polymer Foaming Methods -- 1.2.1 Mechanical Foaming -- 1.2.2 Physical Foaming -- 1.2.3 Chemical Foaming -- 1.3 Fundamentals of SCF Foaming -- 1.3.1 Preparation of Homogeneous Solution -- 1.3.2 Cell Nucleation -- 1.3.2.1 Homogeneous Foam Nucleation -- 1.3.2.2 Heterogeneous Foam Nucleation -- 1.3.2.3 Mixed Nucleation Theory -- 1.3.3 Cell Growth -- 1.3.4 Cell Coalescence and Rupture -- 1.3.4.1 The Mechanism of Cell Rupture -- 1.3.4.2 Mechanism of Cell Opening -- 1.3.5 Solidification

Noise Reduction Foams -- 4.2 Fundamentals of Acoustic Absorption of Polymer Foams -- 4.2.1 Propagation and Absorption of Sound Waves -- 4.2.2 Sound Absorption Principle and Models -- 4.3 Characterization and Influencing Factors for Sound -- 4.3.1 Characterization of Sound Absorption Properties -- 4.3.1.1 Sound Absorption Coefficient () Measurement -- 4.3.1.2 Porosity Measurement -- 4.3.1.3 Cell Diameter, Cell Density, and OpenCell Content -- 4.3.1.4 Tortuosity Measurement -- 4.3.1.5 Airflow Resistance Measurement -- 4.3.2 Factors Affecting Sound Absorption Performance -- 4.3.2.1 Effect of Cellular Morphology -- 4.3.2.2 Macro Shape and Geometry of Polymer Foam -- 4.3.2.3 Resistance of Airflow -- 4.3.2.4 Tortuosity Factor -- 4.4 Types of Acoustic Absorption Foams -- 4.4.1 Sound Absorption Ceramic -- 4.4.2 Sound Absorption Metallic Foam -- 4.4.3 Sound Absorption Polymer Foam -- 4.4.4 Sound Absorption Polymer Composite Foam -- 4.5 Fabrication of Acoustic Absorption Polymer Foams -- 4.5.1 Chemical Foaming -- 4.5.2 Supercritical CO2 Foaming -- 4.5.3 Coating of Foam Skeletons -- 4.5.4 Phase Separation and Particulate Leaching.
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7.2 Fundamentals of Tissue Engineering.

Sommario/riassunto

A one-of-a-kind exploration of the fundamentals of functional polymer foams, including their fabrication and a variety of their most common applications In Functional Polymer Foams: Green Fabrication Methods, Performance and Applications, distinguished researcher Dr. Hao-Yang Mi delivers an up-to-date and incisive discussion of the fundamentals of functional polymer foams, as well as their fabrication methods and a diverse set of applications. The author covers a variety of the material's applications, including energy absorption, acoustic absorption, superhydrophobic materials, tissue engineering scaffolding, flexible sensors, and solar steam generation. Readers will find comprehensive summaries of the mechanisms, fabrication methods, and relative performance of various polymer foams, as well as: * A thorough introduction to functional polymer foams, including the fundamentals of SCF foaming * Comprehensive explorations of energy absorbing polymer foams, including mechanisms of action, testing, and characterization * Practical discussions of functional polymer foams used in thermal insulation, including their fabrication * Complete treatments of acoustic absorption polymer foams and superhydrophobic foams, including advanced applications Perfect for polymer chemists, materials scientists, and researchers working in the sensor industry, Functional Polymer Foams will also benefit sensor developers and electronics engineers with an interest in the fabrication methods and applications of functional polymer foams.