

Preface

This special edition presents the results of cutting-edge research and engineering solutions across diverse materials science and processing technology domains.

Chapter 1, "Properties and Processing of Structural Materials", delves into the analysis characteristics and processing techniques of steel and composite materials that form the backbone of construction and engineering industries. The chapter highlights issues of strength, durability, and adaptability of these materials that are necessary to meet modern engineering demands.

Chapter 2, "Materials for Electronic Devices", focuses on developing and investigating the functional properties of advanced materials that enable the functionality and efficiency of modern electronic equipment, driving progress in electronics, telecommunications, and computing technologies.

Chapter 3, "Materials for Dental Application", explores biocompatible materials designed for oral health, from restorative applications to prosthetics, emphasizing advancements that enhance patient care, durability, and aesthetics.

Chapter 4, "Waste Treatment and Biomass Processing", addresses the growing need for sustainable solutions in waste management and resource recovery, presenting innovative materials and technological processes that contribute to environmental protection and the efficient use of biomass resources.

This special edition provides a comprehensive overview of the latest developments in materials science and materials processing technologies, offering valuable knowledge for researchers, practitioners, and students working to innovate and solve challenges in these interdisciplinary fields.