

Preface

The continuous advancement of material science has significantly shaped modern technology, enabling innovations across diverse industries. This special edition presents the results of the exploration properties and sphere of applications of cutting-edge engineering materials, providing a comprehensive understanding of their role in the development of various engineering fields.

Chapter 1 delves into the properties of advanced polymers and composite materials, highlighting their structural characteristics and performance in high-tech applications.

Chapter 2 focuses on investigations of materials for energy storage devices, emphasizing their significance in sustainable energy solutions.

In Chapter 3, special materials are examined, showcasing unique properties that expand the boundaries and possibilities of modern manufacturing.

Finally, Chapter 4 addresses green building materials, underscoring the importance of sustainable and eco-friendly approaches to innovations in construction.

This compilation will serve as a valuable resource for researchers and engineers, seeking to stay at the forefront of developments in applied material science and we hope that it will inspire their further exploration and innovation.