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Materials science and engineering is a broad discipline that encompasses a wide range of materials and their properties. The study of materials is essential for the development of new technologies and the improvement of existing ones. This book is designed to provide a comprehensive overview of the field of materials science and engineering, with a focus on the properties and behavior of polymers. The book is divided into several chapters, each covering a different aspect of the field. Chapter 1 introduces the basic concepts of materials science and engineering, while Chapter 2 discusses the properties and behavior of polymers. Chapter 3 covers the synthesis and characterization of polymers, and Chapter 4 discusses the processing and manufacturing of polymers. Chapter 5 discusses the properties and behavior of composites, and Chapter 6 discusses the properties and behavior of nanomaterials. Chapter 7 discusses the properties and behavior of biomaterials, and Chapter 8 discusses the properties and behavior of smart materials. Chapter 9 discusses the properties and behavior of polymers in the environment, and Chapter 10 discusses the properties and behavior of polymers in the future. The book is intended for students and researchers in the field of materials science and engineering, and it provides a comprehensive overview of the field.

In this preface, we discuss not only the structure and content of the book, but also the reasons for its existence. The book is a result of the efforts of many people, including the authors, editors, and reviewers. We hope that the book will be a valuable resource for students and researchers in the field of materials science and engineering. The book is divided into two main parts. The first part, Chapters 1 through 6, covers the basic concepts and properties of materials. The second part, Chapters 7 through 10, covers the properties and behavior of polymers in different environments. The book is intended for students and researchers in the field of materials science and engineering, and it provides a comprehensive overview of the field.