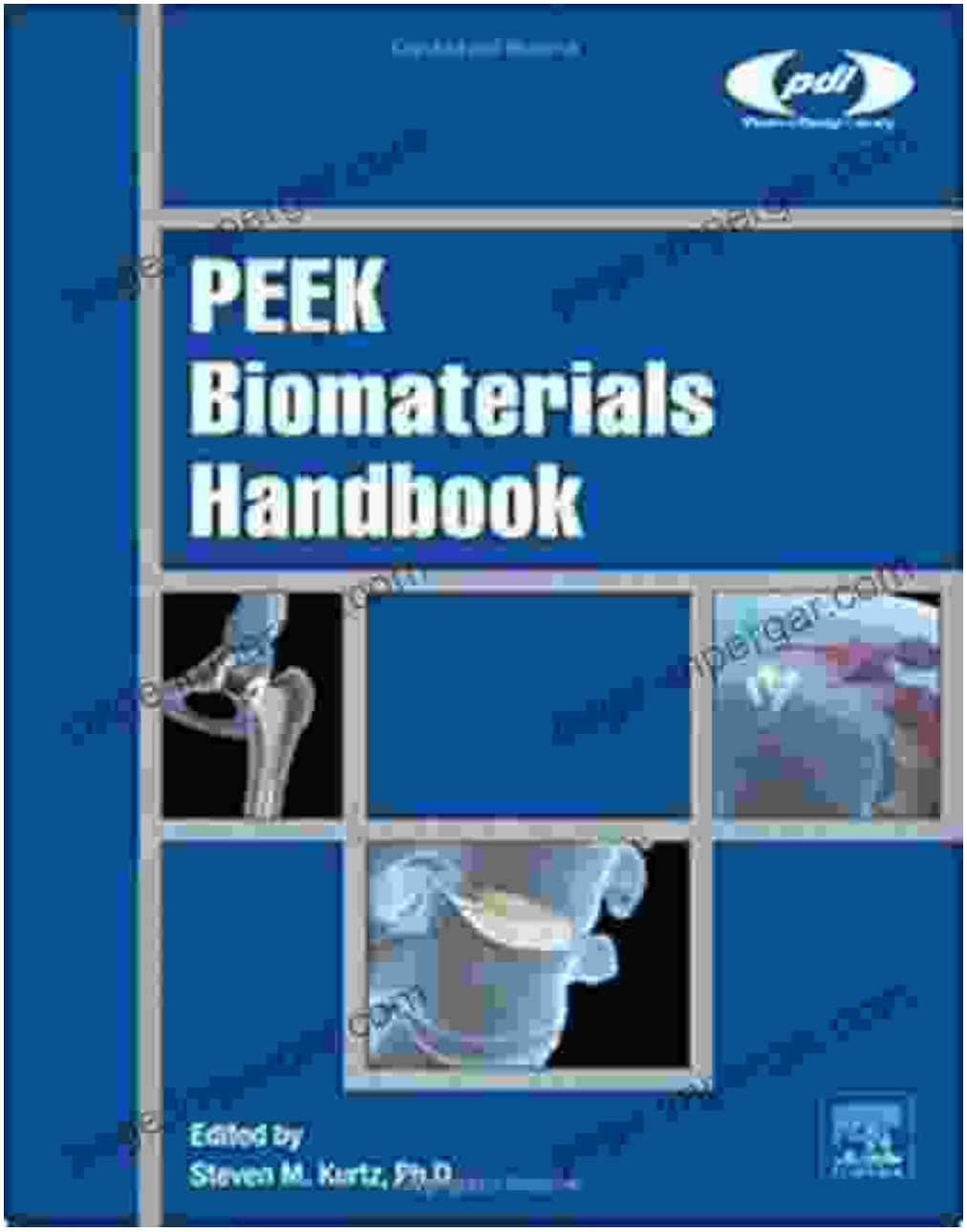
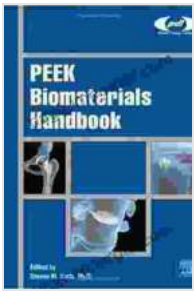
Peek Biomaterials Handbook: An Essential Guide for Plastics Design Engineers



Polyetheretherketone (PEEK) is a high-performance thermoplastic that is widely used in demanding applications in the aerospace, medical, and automotive industries. Its excellent mechanical properties, chemical

resistance, and biocompatibility make it an ideal material for a wide range of applications, from medical implants to aircraft components.



PEEK Biomaterials Handbook (Plastics Design Library)

by Steven M. Kurtz

★★★★★ 5 out of 5

Language	: English
File size	: 11192 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 306 pages

FREE DOWNLOAD E-BOOK

The Peek Biomaterials Handbook is a comprehensive guide to the properties and applications of PEEK. Written by a team of experts from the University of Leeds, this book provides a detailed overview of the material's structure, properties, and processing techniques. It also includes a wealth of case studies and examples of PEEK applications in the biomedical and aerospace industries.

What's Inside the Peek Biomaterials Handbook?

The Peek Biomaterials Handbook is divided into 10 chapters, each of which covers a different aspect of the material's properties and applications. The chapters are as follows:

- **Chapter 1: to PEEK**

  This chapter provides a general overview of PEEK, including its history, structure, and properties.

- **Chapter 2: Mechanical Properties of PEEK**

  This chapter discusses the mechanical properties of PEEK, including its strength, stiffness, toughness, and fatigue resistance.

- **Chapter 3: Thermal Properties of PEEK**

  This chapter discusses the thermal properties of PEEK, including its melting point, glass transition temperature, and thermal conductivity.

- **Chapter 4: Chemical Properties of PEEK**

  This chapter discusses the chemical properties of PEEK, including its resistance to acids, bases, and solvents.

- **Chapter 5: Biological Properties of PEEK**

  This chapter discusses the biological properties of PEEK, including its biocompatibility and cytotoxicity.

- **Chapter 6: Processing Techniques for PEEK**

  This chapter discusses the processing techniques for PEEK, including injection molding, extrusion, and machining.

- **Chapter 7: Applications of PEEK in the Biomedical Industry**

  This chapter discusses the applications of PEEK in the biomedical industry, including its use in medical implants, surgical instruments, and drug delivery devices.

- **Chapter 8: Applications of PEEK in the Aerospace Industry**

  This chapter discusses the applications of PEEK in the aerospace industry, including its use in aircraft components, satellites, and space probes.

- **Chapter 9: Case Studies**

  This chapter provides a number of case studies that illustrate the use of PEEK in a variety of applications.

- **Chapter 10: Future Directions for PEEK**

  This chapter discusses the future directions for PEEK, including the development of new grades of PEEK and the expansion of its applications.

Who Should Read the Peek Biomaterials Handbook?

The Peek Biomaterials Handbook is an essential resource for anyone who works with PEEK, including:

- Plastics engineers
- Materials scientists
- Medical device designers
- Aerospace engineers
- Researchers
- Students

Benefits of Reading the Peek Biomaterials Handbook

Reading the Peek Biomaterials Handbook provides a number of benefits, including:

- A comprehensive understanding of the properties and applications of PEEK
- The ability to select the right grade of PEEK for a specific application
- The ability to design and process PEEK components
- The ability to stay up-to-date on the latest developments in PEEK technology

Free Download Your Copy Today!

The Peek Biomaterials Handbook is available now from the Plastics Design Library. Free Download your copy today to learn more about this versatile and high-performance material.

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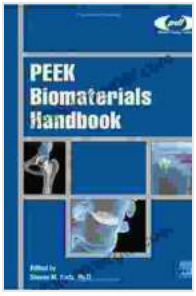

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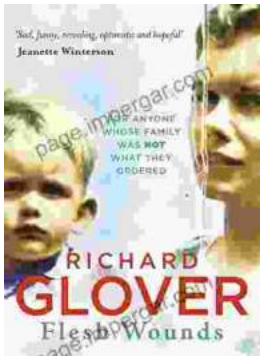

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