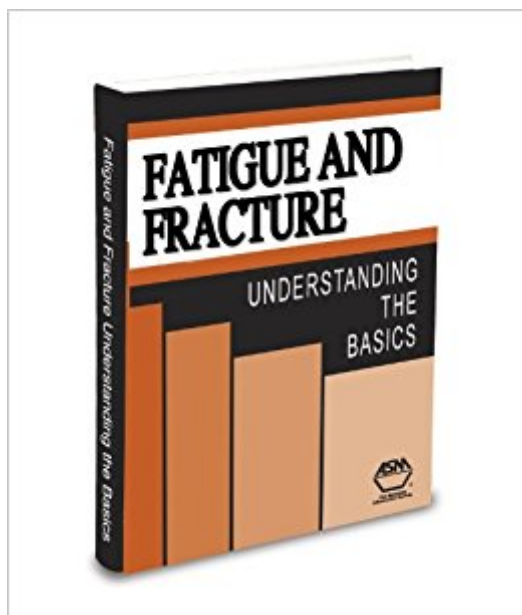


The book was found

Fatigue And Fracture: Understanding The Basics



Synopsis

This book emphasizes the physical and practical aspects of fatigue and fracture. It covers mechanical properties of materials, differences between ductile and brittle fractures, fracture mechanics, the basics of fatigue, structural joints, high temperature failures, wear, environmentally-induced failures, and steps in the failure analysis process. Separate chapters are devoted to fatigue and fracture of steels, aluminum alloys, titanium and titanium alloys, ceramics, polymers and continuous fiber polymer matrix composites.

Table of Contents

Chapter 1 Introduction to Fatigue and Fracture

Chapter 2 Mechanical Behavior

Chapter 3 Ductile and Brittle Fracture

Chapter 4 Fracture Mechanics

Chapter 5 Fatigue of Metals

Chapter 6 Fatigue and Fracture of Engineering Alloys

Chapter 7 Metallic Joints- Mechanically Fastened and Welded

Chapter 8 Fracture Control and Damage Tolerance Analysis

Chapter 9 Fatigue and Fracture of Ceramics and Polymers

Chapter 10 Fatigue and Fracture of Continuous Fiber Polymer Matrix Composites

Chapter 11 High Temperature Failures

Chapter 12 Wear Failures

Chapter 13 Environmentally-Induced Failures

Chapter 14 The Failure Analysis Process

Appendix A Defects Leading to Failure

About the Editor: F.C. Campbell's 38-year career at The Boeing Company was divided between engineering and manufacturing. He worked in the engineering laboratories, manufacturing research and development, as well as engineering on four production aircraft programs, and in production operations. At the time of his retirement in 2007, he was a Senior Technical Fellow in the field of structural materials and manufacturing technology. He has written or edited many books for ASM International, including Structural Composite Materials, Elements of Metallurgy and Engineering Alloys, and several titles in the Understanding the Basics series.

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