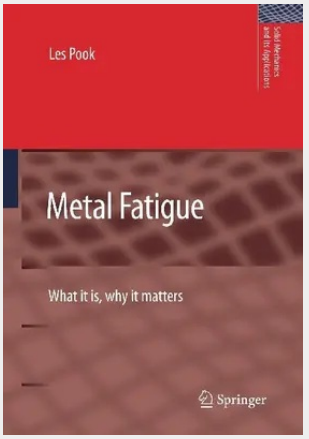
Pook

Metal Fatigue

What It Is, Why It Matters

This book presents important concepts in metal fatigue in a straightforward manner, for the benefit of readers who must understand more advanced documents on a wide range of metal fatigue topics. The text shows how metal fatigue problems are solved in engineering practice. The book assumes no prior knowledge of metal fatigue, requiring only a basic understanding of stress analysis and mathematics covered in engineering undergraduate courses.

Historical Background.- Constant Amplitude Fatigue.- Variable Amplitude and Multiaxial Fatigue.- Fatigue Design.- The Uncracked Situation.- The Cracked Situation.- Fatigue Crack Paths.- Why Metal Fatigue Matters.



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