



Classic, comprehensive, and up-to-date  
**Metal Fatigue in Engineering**  
 Second Edition

For many years, *Metal Fatigue in Engineering* has served as an important textbook and reference for students and practicing engineers concerned with the design, development, and failure analysis of components, structures, and vehicles subjected to repeated loading.

Now this generously revised and expanded edition retains the best features of the original while bringing it up to date with the latest developments in the field.

As with the *First Edition*, this book focuses on applied engineering design, with a view to producing products that are safe, reliable, and economical. It offers in-depth coverage of today's most common analytical methods of fatigue design and fatigue life prediction/estimation for metals. Contents are arranged logically, moving from simple to more complex fatigue loading and conditions. Throughout the book, there is a full range of helpful learning aids, including worked examples and hundreds of problems, exercises, and figures as well as design comments and "design do's and don'ts" sections to help speed and enhance understanding of the material.

The *Second Edition* contains a vast amount of new information, including:

- Enhanced coverage of micro-mechanics fatigue mechanisms, such as strain analysis, fatigue crack growth at notches, rounded corners, digital processing, and fatigue design of weldments
- Nonproportional loading and critical plane approaches for multiaxial fatigue
- A new chapter on statistical aspects of fatigue

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**Metal Fatigue in Engineering**

Second Edition



# Metal Fatigue in Engineering



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