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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.

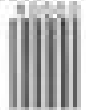
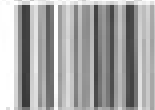
As with the *First Edition*, this book focuses on applied engineering design, with a view to producing products that are safe, reliable, and economical. It offers in-depth coverage of today's most common analytical methods of fatigue design and fatigue life prediction/estimation for metals. Contents 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, references, and figures as well as chapter summaries 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/macro fatigue mechanisms, such as stress analysis, fatigue crack growth in metals, residual stresses, 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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Metal Fatigue In Engineering Henry Otten Fuchs:

Metal Fatigue in Engineering Ralph I. Stephens, Ali Fatemi, Robert R. Stephens, Henry O. Fuchs, 2000-11-03 Classic comprehensive and up to date Metal Fatigue in Engineering Second Edition For twenty 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 predictions estimations 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 references and figures as well as chapter summaries and design do s and don ts sections to help speed and reinforce understanding of the material The Second Edition contains a vast amount of new information including Enhanced coverage of micro macro fatigue mechanisms notch strain analysis fatigue crack growth at notches residual stresses digital prototyping 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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