



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 compressors, turbines, 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, 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

RALPH I. STEPHENS is Professor of Mechanical Engineering at The University of Iowa in Iowa City. **ALI FATEMI** is Professor of Mechanical, Industrial, and Manufacturing Engineering at The University of Toledo in Ohio. **ROBERT R. STEPHENS** is Associate Professor of Mechanical Engineering at The University of Idaho in Moscow, Idaho. The late **HENRY O. FUCHS** was Professor, and later Professor Emeritus, at Stanford University in Palo Alto, California.

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Ralph I. Stephens

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