



Metal Fatigue in Engineering

Ali Fatemi

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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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