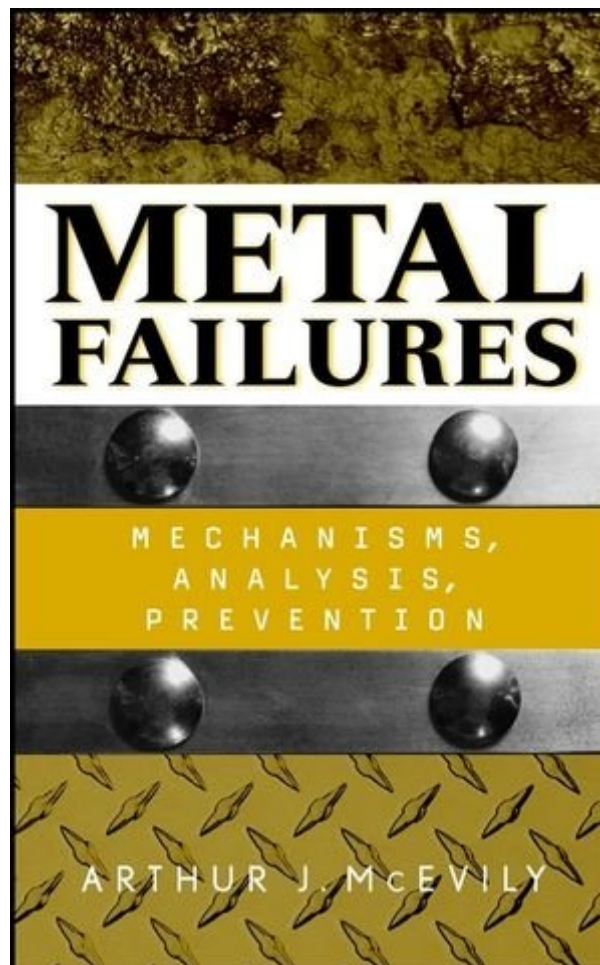
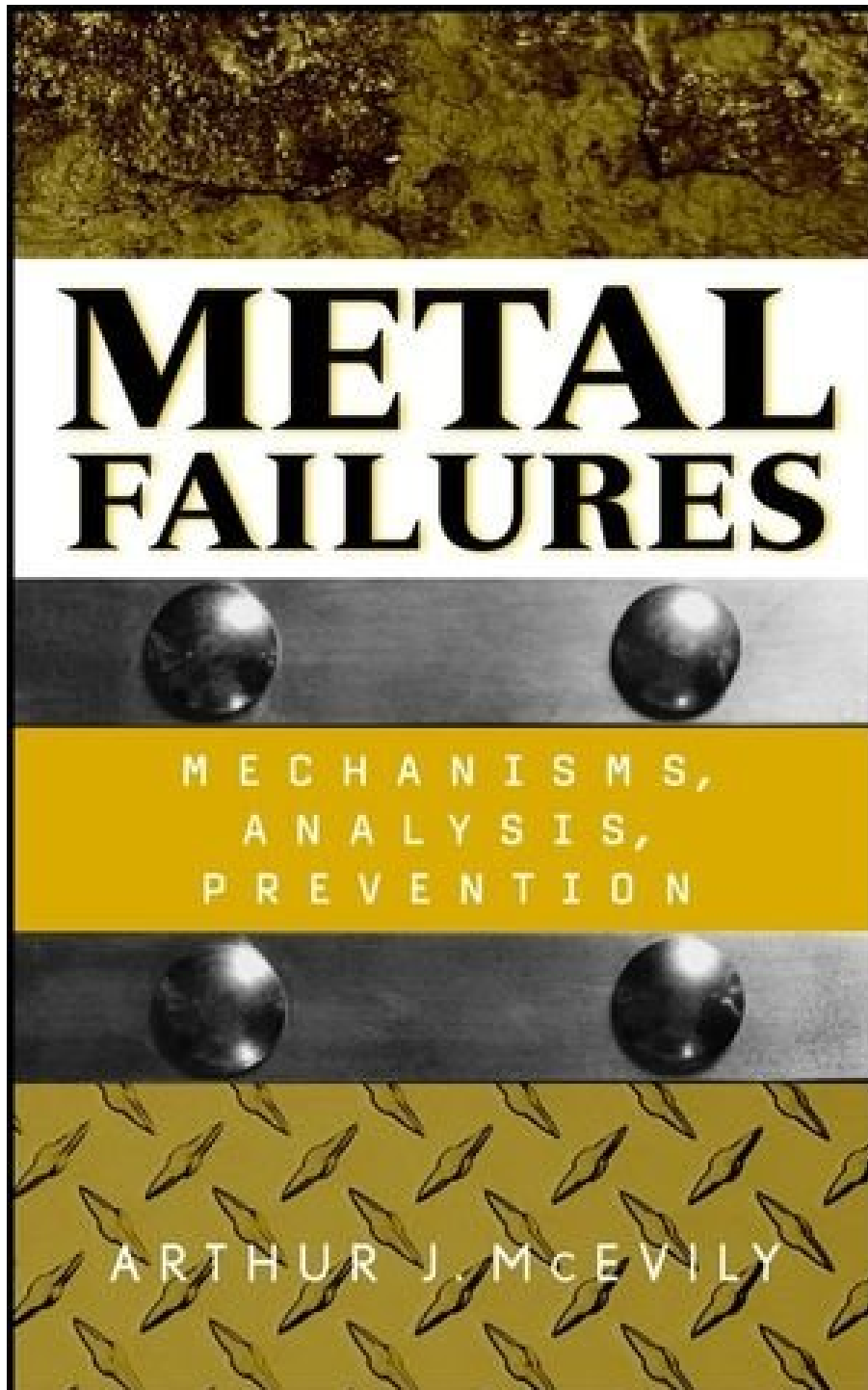


**METAL FAILURES: MECHANISMS,
ANALYSIS, PREVENTION BY ARTHUR J.
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Review

"...gives engineers the intellectual tools and practical understanding needed to analyze failures..."
(Aluminium Extrusion, No.2, 2002)

From the Back Cover

comprehensive coverage of both the "how" and "why" of metal failures

Metal Failures gives engineers the intellectual tools and practical understanding needed to analyze failures from a structural point of view. Its proven methods of examination and analysis enable investigators to:

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- * Present and defend these conclusions before highly critical bodies
- * Suggest design improvements that may prevent future failures

Analytical methods presented include stress analysis, fracture mechanics, fatigue analysis, corrosion science, and nondestructive testing. Numerous case studies illustrate the application of basic principles of metallurgy and failure analysis to a wide variety of real-world situations. Readers learn how to investigate and analyze failures that involve:

- * Alloys and coatings
- * Brittle and ductile fractures
- * Thermal and residual stresses
- * Creep and fatigue
- * Corrosion, hydrogen embrittlement, and stress-corrosion cracking

This useful professional reference is also an excellent learning tool for senior-level students in mechanical, materials, and civil engineering.

About the Author

ARTHUR J. MCEVILY, DEngSc, is Professor Emeritus in the Department of Metallurgy and Materials Engineering at the University of Connecticut.

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ARTHUR J. McEVILY, DEngSc, is Professor Emeritus in the Department of Metallurgy and Materials Engineering at the University of Connecticut.

Most helpful customer reviews

10 of 10 people found the following review helpful.

Dr. Michael Stevenson

By Dr. Michael Stevenson

This text provides perhaps the most concise and authoritative resource for the field of Metallurgical Failure Analysis that I have read. Rather than approaching failures from a cookbook perspective, that is only linking cause to failure through single case histories, this author presents the fundamental concepts of the discipline and supplements them with appropriate examples. After reading the book, I am considering using it a text to a course that previously could only be approached with personal course notes. This is the most comprehensive and fundamentally organized book I have read in years. Well worth twice the price.

1 of 1 people found the following review helpful.

Compliments other texts, but has individual weaknesses

By BrianC

This book has a ton of great information in it, but could use more supporting notation with the pictures. The quality and resolution of the pictures and figures is lacking as well. I have much higher expectations for the print quality of modern books. I found myself struggling with many of the figures, because the author does not do a great job at elaborating on what the picture is trying to communicate. Rarely do the pictures have arrows pointing out key features. Sometimes features are so obvious an arrow is not critical; however, the eye of a non-expert sometimes needs a little help.

I also found the author does not always follow convention with respect to variables. For example, I have quite a lot of experience in Weibull and life data analysis, and I have never run across the variables the author used for the Weibull parameters.

On a positive, this book does provide a good historical account of many analysis methods.

I do not recommend this book, if it your first text on failure analysis. I find it most helpful when I have additional texts to tie loose ends together. I recommend Brooks and Choudhury's book if you are looking for more of a reference to be used in a professional environment.

In the end, I am glad I have this text in my personal library; however, I would be very disappointed if it was my first (or only) text on the topic.

1 of 1 people found the following review helpful.

forensic detective

By Dr. P. R. Lewis

Why is so little published on product failure? The subject is serious enough given the dire consequences if the product carries passengers, for example. Analysis of major disasters is a well-known genre, such as the seemingly endless books about the loss of The Titanic, but failures where large loss of life does not occur seem under-published. Yet they can be just as important in revealing potential design flaws which could lead to much worse when unrecognised, or not addressed by product designers. The subject of forensic engineering has grown fast in the last two decades, prompted by the growth in litigation, which demands that expert investigation is undertaken to determine the cause or causes of specific failures. The present book attempts to address the problems of metal product failures in a very detailed and comprehensive examination of the failure of metal products. It identifies the major failure modes, such as fatigue, corrosion and under-design, and describes the ways of circumventing the problems. If there is any drawback, it is that other materials are not included, such as polymers, ceramics or glasses. The book is very well illustrated with numerous cases studies, many from the files of the author, and it deserves a wide readership.

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