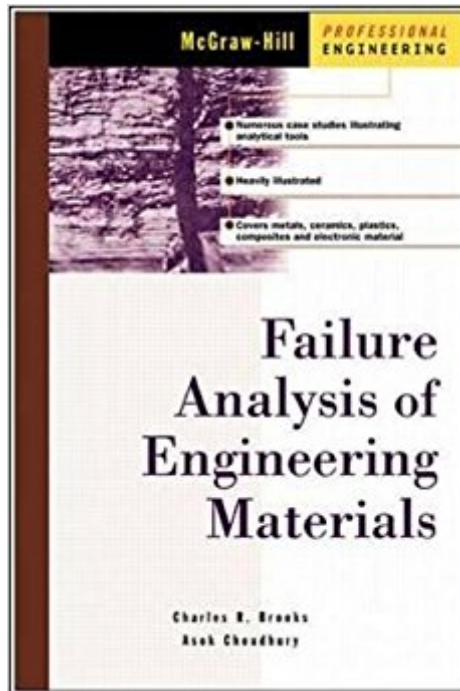




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# Failure Analysis Of Engineering Materials



## Synopsis

Solve, correct, and avoid critical material failure problems Expertly analyze failures in common materials with Failure Analysis of Engineering Materials. This investigatory/analytical tool by Charles R. Brooks and Ashok Choudhury is a time-saving, one-stop reference for engineers. A soundly written introduction to principals and practices, it's invaluable for failure inquiries involving metals, ceramics, plastics, composites, and electronic materials. You get:

- \* Practical, hands-on help with selecting and justifying analytic methods
- \* Numerous case studies that illustrate the use of analytical tools to determine the condition of the material
- \* Comparative fractographs to help you pinpoint fracture type.

## Book Information

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## Customer Reviews

"Very valuable for solving, correcting, and avoiding critical material failure problems" -- well organized and presented. -- Charles A. Harper, president of Technology Seminars, Inc., and author and editor of numerous technical books, including the Electronic Packaging and Interconnection Handbook

EXPERTLY ANALYZE FAILURES IN COMMON MATERIALS

Perfect for engineers, Failure Analysis of Engineering Materials is the best tool for expert investigation and analysis of component failures.\* The premier one-stop reference for material failure information\* Designed-to-be-used introduction to principals and practices\* Ideal for failure inquiries involving metals, ceramics, plastics, composites, and electronic materials\* Practical, hands-on help with

selecting and justifying analytic methods500 ILLUSTRATIONS--\* Pinpoint fracture type with comparative fractographs\* Use as expert examples in reports

CHARLES R. BROOKS is Professor of Metallurgical Engineering and Alumni Distinguished Service Professor Emeritus at the University of Tennessee. He has received several teaching awards, including the M.E. Brooks Distinguished Faculty Award of the College of Engineering and the Albert Easton White Teaching Award from ASM International. He is also a Fellow of ASM International. ASHOK CHOUDHURY is Commercialization Manager for the Office of Technology Transfer at Oak Ridge National Laboratory, Oak Ridge, Tennessee. He is the recipient of several teaching awards and technology transfer awards, and a co-recipient of an R&D 100 Award.

I have been a forensic engineer for a good many years and I'm now on the Board of the American College of Forensic Engineering and Technology. That said, I have also prided myself in my knowledge of the mechanics of materials, failure analysis, properties, etc., but this incredible reference book has indeed brought me to my knees; it is, as the title of this review indicates, humbling to the very people that think they know more than the average bear, me included. This is a true in-depth treatise of the field of engineering materials science, replete with many photos, graphs, and illustrations. Dollar for dollar, gram for gram, this is the best reference of its type on the market. If you are a forensic engineer, even if your particular expertise is not in material analysis and/or failure issues, you would do well to have this reference on your bookshelf; I guarantee it.

This book is exactly what I was looking for: application based failure analysis supplemented with theory and case studies. The book is very well written AND concise. The book contains the perfect amount of theory for practicing engineers, and countless related examples. This is not a course textbook laden with derivations and complex math. The authors wrote a perfect book for professional engineers involved with material failure analysis. Not to mention many pictures of failure surfaces with clear explanation of what the picture is showing. This is a book I will keep close for frequent referencing.

The book is in great condition and exactly what it said it is.

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