



Failure Analysis of Engineering Materials

By Charles Brooks, Ashok Choudhury, Charlie R. Brooks

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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.

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Editorial Review

From the Back Cover

“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 methods

500 ILLUSTRATIONS--

- * Pinpoint fracture type with comparative fractographs
- * Use as expert examples in reports

About the Author

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.

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