

# Resenha da literatura básica em análise de falhas

VDI 3822 2011-11

Schadensanalyse - Grundlagen und Durchführung einer Schadensanalyse

Failure analysis - Fundamentals and performance of failure analysis

<http://www.vdi.de/technik/fachthemen/materials-engineering/richtlinien/vdi-3822-schadensanalyse/>

<http://www.beuth.de/de/technische-regel/vdi-3822/143906959>

€ 68,40

Den Benutzern der Richtlinienreihe VDI 3822 werden kennzeichnende Schadensbilder, Schadensbeschreibungen und Schadensmechanismen zum Vergleich mit dem zu untersuchenden Schadensfall zur Verfügung gestellt.

Die folgenden Blätter folgen in ihrer Gliederung der Situation bei der Schadensanalyse: Ausgehend von einem Schadensbild unterstützen sie bei der Findung potenzieller Schadenshypothesen und -mechanismen, um anschließend Hinweise zur Feststellung der Schadensursachen zu geben.

Der Erfolg einer Schadensanalyse hängt weitgehend von der Sorgfalt ihrer Planung, von der Art und dem Umfang der einzelnen Untersuchungsschritte sowie der Qualität ihrer Durchführung ab. Um Erfahrungen aus Schadensanalysensystematisch auswerten und zugänglich machen zu können, sind Vereinheitlichungen erforderlich. Demnach ist es Zweck der Richtlinie:

- • Begriffe zu definieren
- • Schadensarten einheitlich zu benennen und zu beschreiben
- • zur systematischen Vorgehensweise bei der Schadensanalyse anleiten
- • die Vergleichbarkeit der Ergebnisse verschiedener Untersuchungsstellen zu gewährleisten
- • Voraussetzungen zur nachvollziehbaren Dokumentation zu schaffen

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Stahlinstitut VDEh

SEP 1100

Begriffe im Zusammenhang mit Rissen und Brüchen

Teil 1: Erscheinungsformen

September 1992

<http://www.beuth.de/de/technische-regel/sep-1100-teil-1/941849>

€ 27,80

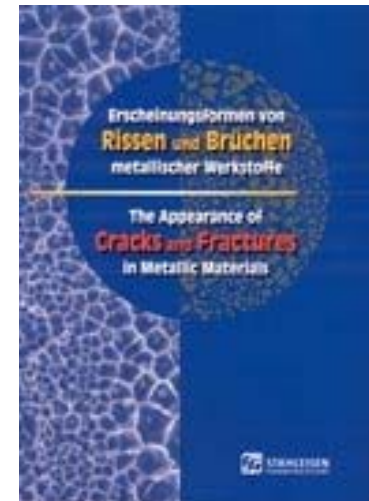
Erscheinungsformen von Rissen und Brüchen

The Appearance of Cracks and Fractures in Metallic Materials

2ª edição

€ 49,00

<https://www.stahleisen.de/Content/Produkte/Buchshop/Browsecategories/Category/Products/Product/tabid/297/spid%5B709%5D/83/language/de-DE/Default.aspx>



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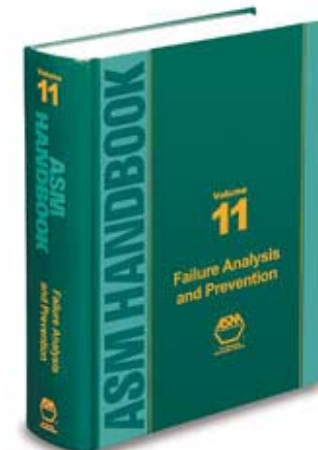
## ASM Handbook Volume 11: Failure Analysis and Prevention

Editor: W.T. Becker and R.J. Shipley

ISBN: 978-0-87170-704-8

[http://www.asminternational.org/home/-/journal\\_content/56/10192/06072G/PUBLICATION](http://www.asminternational.org/home/-/journal_content/56/10192/06072G/PUBLICATION)

Price: \$297.00 Member Price: \$225.00

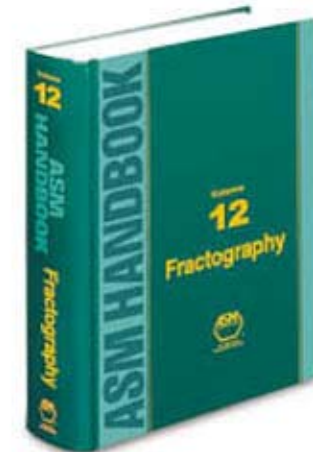


## ASM Handbook Volume 12: Fractography

ISBN: 978-0-87170-018-6

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# Resenha da literatura básica em análise de falhas

ASTM E2332-04

Standard Practice for Investigation and Analysis of Physical Component Failures  
(withdrawn 2004)

Developed by Subcommittee: E58.02

DOI: 10.1520/E2332-04

<http://www.astm.org/Standards/E2332.htm>

PDF Format; 2 Pages ; Price \$ 45.60

Withdrawn Rationale:

This standard practice for the scientific-engineering, or technical investigation and analysis of component failures covers the collection and analysis of all information and physical evidence pertaining to the failure or perceived failure of a specific component.

Formerly under the jurisdiction of Committee E58 on Forensic Engineering, this practice was withdrawn in January 2013 in accordance with section 10.5.3.1 of the Regulations Governing ASTM Technical Committees, which requires that standards shall be updated by the end of the eighth year since the last approval date.

# Resenha da literatura básica em análise de falhas

## ASTM E2332-04

### 1. Scope

- 1.1 This standard practice for the engineering investigation and analysis of component failures covers the collection and analysis of all information and physical evidence pertaining to the failure or perceived failure of a specific component. The data and physical evidence includes but are not limited to background information regarding the design (if available), fabrication and expected service conditions of the component, evidence pertaining to the actual service history of the component, and physical evidence relating to the component failure. The nature of the use of the particular component is immaterial with respect to this standard. This standard does not apply to software.
- 1.2 For the purpose of collecting and generating data, all values will be used with SI (English) units.

This standard may involve hazardous substances and objects, operations, and equipment. This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

### 2. Referenced Documents (purchase separately)

- E620 Practice for Reporting Opinions of Scientific or Technical Experts
- E678 Practice for Evaluation of Scientific or Technical Data
- E860 Practice for Examining And Preparing Items That Are Or May Become Involved In Criminal or Civil Litigation
- E1020 Practice for Reporting Incidents that May Involve Criminal or Civil Litigation
- E1188 Practice for Collection and Preservation of Information and Physical Items by a Technical Investigator
- E1492 Practice for Receiving, Documenting, Storing, and Retrieving Evidence in a Forensic Science Laboratory

# Resenha da literatura básica em análise de falhas

## Journal of Failure Analysis and Prevention

ASM International, The Materials Information Society.

Editor: Michael Stevenson

ISSN: 1547-7029 (print version)

<http://www.springer.com/materials/surfaces+interfaces/journal/11668>

- Provides practical information for determining the cause of failures and eliminating future failures
- Highlights information-gathering techniques, technical analysis and emerging tools to assist the future analyst
- Peer-reviewed articles demonstrate the important of failure analysis, product/performance improvement and industrial problem solving
- 100% of authors who answered a survey reported that they would definitely publish or probably publish in the journal again

The Journal of Failure Analysis and Prevention (JFAP) presents information gathering techniques, technical analysis, and emerging tools that assist failure analysis professionals in determining the cause of failures and eliminating failures in the future. Uniquely, this publication contains current news and technical articles, as well as archival peer-reviewed papers and reviews.

Articles demonstrate the importance of failure analysis to product/performance improvements and industrial problem solving. JFAP benefits both the experienced and less experienced failure analysis practitioner with a focus on shared interest across the industries.

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## Engineering Failure Analysis

Published in Affiliation with the European Structural Integrity Society

Editor-in-Chief: R. Clegg

<http://www.journals.elsevier.com/engineering-failure-analysis/>

Engineering Failure Analysis publishes research papers describing the analysis of engineering failures and related studies.

Papers relating to the structure, properties and behaviour of engineering materials are encouraged, particularly those which also involve the detailed application of materials parameters to problems in engineering structures, components and design. In addition to the area of materials engineering, the interacting fields of mechanical, manufacturing, aeronautical, civil, chemical, corrosion and design engineering are considered relevant. Activity should be directed at analysing engineering failures and carrying out research to help reduce the incidences of failures and to extend the operating horizons of engineering materials.

Emphasis is placed on the mechanical properties of materials and their behaviour when influenced by structure, process and environment. Metallic, polymeric, ceramic and natural materials are all included and the application of these materials to real engineering situations should be emphasised. The use of a case-study based approach is also encouraged.

Engineering Failure Analysis provides essential reference material and critical feedback into the design process thereby contributing to the prevention of engineering failures in the future. All submissions will be subject to peer review from leading experts in the field.

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## Case Studies in Engineering Failure Analysis

Editor-in-Chief: D. Bettge

<http://www.journals.elsevier.com/case-studies-in-engineering-failure-analysis/>

Case Studies in Engineering Failure Analysis provides a forum for the rapid publication of short, structured Case Studies in Engineering Failure Analysis and related Short Communications, and will provide an essential compendium of case studies for practitioners in the field of engineering failure analysis and others who are interested in the ways in which components fail.

The journal will not only publish new and novel case studies, but will also provide a forum for the publication of high quality descriptions of classic failures. The journal will generally not publish design analyses, materials science studies or failures induced during laboratory testing. The scope of the journal will include case studies of component failures in the fields of mechanical, civil, aerospace, mining, oil and gas, medical, electrical, transportation, power generation, process and forensic engineering, although failure of engineering components in other areas will also be considered.

Case Studies in Engineering Failure Analysis is an open access journal. If articles are accepted for publication, authors are requested to pay an Article Processing Fee. Following payment of this fee, the article is made freely available to all on <http://www.sciencedirect.com>.