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Autore	Huda Zainul
Titolo	Design against fracture and failure // Zainal Huda, Robert Bulpett, Kang Yong Lee
Pubbl/distr/stampa	Stafa-Zuerich ; ; Enfield, New Hampshire : , : Trans Tech Publications Limited, , 2010
ISBN	3-03813-446-5
Descrizione fisica	1 online resource (220 p.)
Collana	Materials science foundations, , 1422-3597 ; ; volume 69
Disciplina	620.1/126
Soggetti	Fracture mechanics Composite materials - Fracture Metals - Fracture
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Introduction -- 2. Strength and safety in design -- 3. Elements of fracture mechanics -- 4. The design against fracture: philosophy and practices -- 5. Fracture mechanisms in metals -- 6. Failure mechanisms in composite materials -- 7. Metallurgical failures -- 8. General practices in failure analysis -- 9. Role of electron fractography in failure analysis -- 10. Design against fatigue and ductile failures -- 11. Design against failures caused by temperature & environment.
Sommario/riassunto	The aim of this book is to develop, in the reader, the necessary skills required for designing materials, components and structures so as to resist fracture and failure in engineering applications. In order to achieve this objective, the authors have adopted a combined materials science-fracture mechanics-design approach. Although the material covered is designed for an advanced undergraduate course in metallurgy/materials engineering, students coming from mechanical, civil or aerospace engineering backgrounds will also be able to use this text as a course/reference book. In addition to studen

2. Record Nr.	UNINA9910133019303321
Titolo	Accounts of chemical research
Pubbl/distr/stampa	Washington, DC, : American Chemical Society, 1968-
ISSN	1520-4898
Disciplina	540
Soggetti	Chemistry - Research Chemistry Chimie - Recherche Chimie chemistry Chemie Zeitschrift Online-Ressource Química Investigació Periodical Periodicals. Zeitschrift Elektronische Publikation Revistes electròniques.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Title from contents page (ACS Publications, viewed Aug. 11, 2006).