

1. Record Nr.	UNINA9910463015603321
Autore	Fisher Thomas <1953-, >
Titolo	Designing to avoid disaster : the nature of fracture-critical design // Thomas Fisher
Pubbl/distr/stampa	New York : , : Routledge, , 2013
ISBN	1-283-86206-9 1-136-28614-4 0-203-11329-2
Descrizione fisica	1 online resource (273 p.)
Disciplina	620.8/6
Soggetti	Design - Methodology Safety factor in engineering Electronic books.
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 (p. [229]-246) and index.
Nota di contenuto	pt. I. The nature of fracture-critical design -- pt. II. How fracture-critical design affects our lives -- pt. III. Designing to avoid future disasters.
Sommario/riassunto	Recent catastrophic events, such as the I-35W bridge collapse, New Orleans flooding, the BP oil spill, Port au Prince's destruction by earthquake, Fukushima nuclear plant's devastation by tsunami, the Wall Street investment bank failures, and the housing foreclosure epidemic and the collapse of housing prices, all stem from what author Thomas Fisher calls fracture-critical design. This is design in which structures and systems have so little redundancy and so much interconnectedness and misguided efficiency that they fail completely if any one part does not perform as intended. If