

1.	Record Nr.	UNINA990006820100403321
	Titolo	GLOBAL warming and energy demand / edited by Terry Barker, Paul Ekins and Nick Johnstone ; foreword by John Houghton
	Pubbl/distr/stampa	London and New York : Routledge, 1995
	Descrizione fisica	XVI, 336 p. ; 23 cm
	Collana	Global environmental change series
	Disciplina	305.2
	Locazione	FSPBC
	Collocazione	VI C 954
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910350307903321
	Titolo	Risk Based Technologies [[electronic resource] /] / edited by Prabhakar V. Varde, Raghu V. Prakash, Narendra S. Joshi
	Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
	ISBN	981-13-5796-X
	Descrizione fisica	1 online resource (320 pages)
	Disciplina	658.382
	Soggetti	System safety Astronautics Engineering Quality Control, Reliability, Safety and Risk Nuclear Energy Aerospace Technology and Astronautics Complexity
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

Nota di contenuto

Chapter 1: Introduction -- Chapter 2: Materials Reliability -- Chapter 3: Structural Risk Assessment -- Chapter 4: Software risk and asset management -- Chapter 5: Human Factor Engineering for Complex Engineering Scenarios -- Chapter 6: Reliability and risk engineering – Academic aspects -- Chapter 7: Condition Monitoring and Prognosis – An asset Management Approach -- Chapter 8: Structural Reliability -- Chapter 9: Risk Management in First of its Kind Mega Project – A Case Study on Indian PFBR -- Chapter 10: Design for Reliability Approach to Electronics in Nuclear Plant Environment -- Chapter 11: Passive thermal hydraulic system reliability – AHWR Challenge -- Chapter 12: Risk and Reliability Management Approach to Strategic System -- Chapter 13: Fatigue & Fracture Risk Assessment.

Sommario/riassunto

This book presents selected topics in implementing a risk-based approach for complex engineering systems in general, and nuclear plants in particular. It addresses gap areas in implementing the risk-based approach to design, operation and regulation, covering materials reliability, digital system reliability, software reliability, human factor considerations, condition monitoring and prognosis, structural aspects in risk-based design as well as the application aspects like asset management for first-of-their-kind projects, strategic management and other academic aspect. Chapters are authored by renowned experts who address some of the identified challenges in implementation of risk-based approach in a clear and cogent manner, using illustrations, tables and photographs for ease of communication. This book will prove useful to researchers, professionals, and students alike.
