

1. Record Nr.	UNINA9910586652503321
Titolo	Mind and matter : challenges and opportunities in cognitive semiotics and aesthetics // edited by Asun Lopez-Varela Azcarate
Pubbl/distr/stampa	London, England : , : IntechOpen, , [2022] ©2022
ISBN	1-83969-936-1
Descrizione fisica	1 online resource (194 pages) : illustrations
Disciplina	302.2019
Soggetti	Semiotics - Psychological aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
2. Record Nr.	UNINA9910437905403321
Autore	Zio Enrico
Titolo	The Monte Carlo simulation method for system reliability and risk analysis // by Enrico Zio
Pubbl/distr/stampa	London, : Springer, 2012
ISBN	9781283911016 1283911019 9781447145882 1447145887
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (203 p.)
Collana	Springer series in reliability engineering
Disciplina	620.00452015118
Soggetti	Monte Carlo method Reliability (Engineering) - Simulation methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.

## Nota di contenuto

1.Introduction -- 2.System Reliability and Risk Analysis -- 3.Monte Carlo Simulation- the Method -- 4.System Reliability and Risk Analysis by Monte Carlo Simulation -- 5.Practical Applications of Monte Carlo Simulation for System Reliability Analysis -- 6.Advanced Mont Carlo Simulation Techniques for System Failure Probability Estimation -- 7. Practical Applications of Advanced Monte Carlo Simulation Techniques for System Techniques for System Failure Probability Estimation.

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## Sommario/riassunto

Monte Carlo simulation is one of the best tools for performing realistic analysis of complex systems as it allows most of the limiting assumptions on system behavior to be relaxed. The Monte Carlo Simulation Method for System Reliability and Risk Analysis comprehensively illustrates the Monte Carlo simulation method and its application to reliability and system engineering. Readers are given a sound understanding of the fundamentals of Monte Carlo sampling and simulation and its application for realistic system modeling. Whilst many of the topics rely on a high-level understanding of calculus, probability and statistics, simple academic examples will be provided in support to the explanation of the theoretical foundations to facilitate comprehension of the subject matter. Case studies will be introduced to provide the practical value of the most advanced techniques. This detailed approach makes The Monte Carlo Simulation Method for System Reliability and Risk Analysis a key reference for senior undergraduate and graduate students as well as researchers and practitioners. It provides a powerful tool for all those involved in system analysis for reliability, maintenance and risk evaluations.

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