

1. Record Nr.	UNINA9910451496803321
Autore	Sa J. P. Marques de <1946->
Titolo	Chance [[electronic resource]] : the life of games & the game of life / / Joaquim P. Marques de Sa
Pubbl/distr/stampa	Berlin, : Springer, c2008
ISBN	1-281-21651-8 9786611216511 3-540-74417-7
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (234 p.)
Disciplina	519.2
Soggetti	Chance Probabilities Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Original Portuguese ed.: Gravidá, 2006.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Probabilities and Games of Chance -- Amazing Conditions -- Expecting to Win -- The Wonderful Curve -- Probable Inferences -- Fortune and Ruin -- The Nature of Chance -- Noisy Irregularities -- Chance and Order -- Living with Chance.
Sommario/riassunto	With its many easy-to-follow mathematical examples, this book takes the reader on an almost chronological trip through the fascinating and amazing laws of chance, omnipresent in the natural world and in our daily lives. Along the route many fascinating topics are discussed, such as: challenging probability paradoxes; "paranormal" coincidences; game odds; causes and effects; interpretation of opinion polls; winning chances as a game proceeds; the nature of randomness; entropy and randomness; randomness in life; algorithmic complexity and the undecidability of randomness; possibilities and limitations of learning the laws of a Universe immersed in chance events. This charming book will inform and entertain the scientist and non-scientist alike.

2. Record Nr.	UNINA9910639892303321
Autore	Marcus Frederick B.
Titolo	Systems Approaches to Nuclear Fusion Reactors / / by Frederick B. Marcus
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	9783031177118 9783031177101
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (484 pages)
Collana	Springer Series in Plasma Science and Technology, , 2511-2015
Disciplina	910.5 621.484
Soggetti	Nuclear fusion Plasma (Ionized gases) Nuclear Fusion Plasma Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to systems approaches and nuclear fusion -- Doublet III and DIII-D – robustness and adaptation -- TCV – A case study in systems approaches and robustness -- JET and fusion plasmas – systems optimization -- ITER – fusion proto-reactor and large scale systems integration -- Mirrors and other reactor concepts -- Alternative systems approaches -- Conclusions on systems approaches.
Sommario/riassunto	This book offers an overall review, applying systems engineering and architecture approaches, of the design, optimization, operation and results of leading fusion experiments. These approaches provide a unified means of evaluating reactor design. Methodologies are developed for more coherent construction or evaluation of fusion devices, associated experiments and operating procedures. The main focus is on tokamaks, with almost all machines and their important results being integrated into a systems design space. Case studies focus on DIII-D, TCV, JET, WEST, the fusion reactor prototype ITER and the EU DEMO concept. Stellarator, Mirror and Laser inertial confinement

experiments are similarly analysed. The book examines the engineering and physics design and optimization process for each machine, analysing their performance and major results achieved, thus establishing a basis for the improvement of future machines. The reader will gain a broad historical and up-to-date perspective of the status of nuclear fusion research from both an engineering and physics point of view. Explanations are given of the computational tools needed to design and operate successful experiments and reactor-relevant machines. This book is aimed at both graduate students and practitioners of nuclear fusion science and engineering, as well as those specializing in other fields demanding large and integrated experimental equipment. Systems engineers will obtain valuable insights into fusion applications. References are given to associated complex mathematical derivations, which are beyond the scope of this book. The general reader interested in nuclear fusion will find here an accessible summary of the current state of nuclear fusion.
