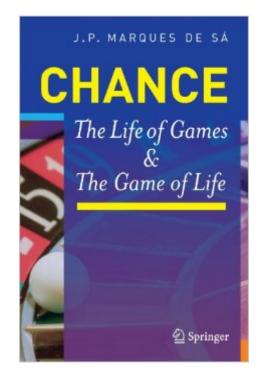
The book was found

# Chance: The Life Of Games & The Game Of Life





## Synopsis

This is a unique book on how probability affects our everyday lives. It guides the reader in an almost chronological trip through the fascinating and amazing laws of chance, omnipresent in the natural world and in our daily lives. Along the way many fascinating topics are discussed. These include challenging probability paradoxes, "paranormal" coincidences, game odds, and causes and effects. Finally the author discusses possibilities and limitations of learning the laws of a Universe immersed in chance events. This charming book, with its many easy-to-follow mathematical examples, will inform and entertain the scientist and non-scientist alike.

## **Book Information**

Paperback: 224 pages Publisher: Springer; 2008 edition (February 22, 2008) Language: English ISBN-10: 3540744169 ISBN-13: 978-3540744160 Product Dimensions: 6.1 x 0.6 x 9.2 inches Shipping Weight: 1.1 pounds (View shipping rates and policies) Average Customer Review: 4.0 out of 5 stars Â See all reviews (4 customer reviews) Best Sellers Rank: #172,204 in Books (See Top 100 in Books) #4 in Books > Science & Math > Physics > Entropy #39 in Books > Science & Math > Evolution > Game Theory #89 in Books > Science & Math > Physics > Mathematical Physics

#### **Customer Reviews**

This valuable book explains the mathematics of chance in a broad variety of contexts. The author is an Engineering Professor, and has included plenty of charts and graphs and elementary math formulas -- this style is certainly OK for readers who have taken College courses in mathematics or engineering or physics but might deter other readers. The first half (Chapters 1 - 5) covers rather standard material covered in many other popular expositions (Struck by Lightning: TheCurious World of Probabilities or Chance Rules: An Informal Guide to Probability, Risk and Statistics) and in introductory college textbooks. Specific topics: the basic math set-up and rules, binomial distribution, combinatorial examples like poker hands and "derangements", familiar paradoxes (Monty Hall, two envelopes, St Petersburg), law of large numbers, chance of winning a specified amount at roulette, normal distribution, confidence intervals for opinion polls, correlation and "correlation is not causation". The second half is more distinctive, in that it includes a little mathematics in discussing less elementary topics that are typically discussed only verbally in "popular science" style books (e.g. The Jungles of Randomness: A Mathematical Safari).

This book gives a delightful overview of Probability, that is, Chance, as a phenomenon in both games and life. The writing style is clear and engaging. Concepts of probability theory are presented in a way that helps the reader realize why we would want to understand these ideas. As a mathematician who teaches probability and statistics courses from time to time, I found this book to be filled with examples that I will use in class the next time I teach Probability. When the author uses the usual examples of flipping coins, rolling dice, and drawing balls from an urn, he makes it clear how these probability experiments can be used to model real life. In ten chapters, this book presents an intuitive overview of the theory of probability, including both the classical notion of probability, and use of relative frequencies to estimate probabilities. There are chapters on conditional probability (Amazing Conditions), mathematical expectation (Expecting to Win), the normal and binomial distributions, and the law of large numbers (The Wonderful Curve), inference (Probable Inferences), chance and determinism (The Nature of Chance), and sequences and random processes (Noisy Irregularities). Games of chance that are played in casinos (roulette, craps, card games, slot machines) and state-sponsored lottery games are introduced early, and recur throughout the book as examples that bring light to concepts that can be difficult to explain. These games form the backdrop for explaining mathematical expectation; after all, a casino does not stay in business unless the House is winning in the long run. The author consistently connects these examples to probabilities that I care about in daily life, such as the probability of having cancer given the outcome of a screening test.

#### Download to continue reading...

Warriors Word Scramble: Word Scramble Games - Word Search, Word Puzzles And Word Scrambles (Word Games, Brain Games, Word Search, Word Search Games, Word ... Scramble, Word Scrabble, Unscramble Word) Hoyle's Rules of Games: The Essential Family Guide to Card Games, Board Games, Parlor Games, New Poker Variations, and More Chance: The Life of Games & the Game of Life The Game Inventor's Guidebook: How to Invent and Sell Board Games, Card Games, Role-Playing Games, & Everything in Between! Here's Looking at Euclid: From Counting Ants to Games of Chance - An Awe-Inspiring Journey Through the World of Numbers America's National Game of Chance: Video Poker The Web Game Developer's Cookbook: Using JavaScript and HTML5 to Develop Games (Game Design) Multiplayer Game Programming: Architecting Networked Games (Game Design) Game Guru: Strategy Games (Premier Press Game

Development) Game Of Thrones: 10 Most Memorable moments from Game of thrones & 23 Facts about GOT you should Know, 26 Jokes only people who've finished GOT Season 5 Will understand (Game of Thrones Secrets) 101 Wild Game Recipes - Large Game: Large Game (The Hunter's Cookbook Book 3) Toy Making and Toy Games: How To Make Your Own Simple Wooden & Paper Toys and Easy to Play Games - Suitable for Toddlers, Kids and Adults! 1996 Olympic Games Countdown: The Official Book of Olympic Games Pin Collecting with a Special Two-year Calendar Brain Games for Dogs: Training, Tricks and Activities for your Dog's Physical and Mental wellness( Dog training, Puppy training, Pet training books, Puppy ... games for dogs, How to train a dog Book 1) The Alternative Bride's Guide to Wedding Games: 111+ games for your reception, bridal shower, and more! The Best Bridal Shower Party Games & Activities, #1 (Party Games and Activities) Indoor Action Games for Elementary Children: Active Games and Academic Activities for Fun and Fitness Video Games Memes: Funny Video Games Memes, Jokes and Funny Pictures! (Lol Memes for Gamers) Nintendo, COD, Clash of Clans, Super Mario Memes plus more! Chess Games With Conceptual Explanations For Intermediate Players: Learn the theories from GM games. How to Win Games and Beat People: Demolish Your Family and Friends at over 30 Classic Games with Advice from an International Array of Experts

<u>Dmca</u>