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LECTURE NOTES IN PHYSICS 792

Dynamics of Gambling

Origins of Randomness in Mechanical Systems



Springer

Dynamics Of Gambling Origins Of Randomness In Mechanical Systems Lecture Notes In Physics

Rose Arny



Dynamics Of Gambling Origins Of Randomness In Mechanical Systems Lecture Notes In Physics:

Dynamics of Gambling: Origins of Randomness in Mechanical Systems Jaroslaw Strzalko, Juliusz Grabski, Przemyslaw Perlikowski, Andrzej Stefanski, Tomasz Kapitaniak, 2010-01-14 Our everyday life is influenced by many unexpected difficult to predict events usually referred as a chance. Probably we all are as we are due to the accumulation point of a multitude of chance events. Gambling games that have been known to human beings nearly from the beginning of our civilization are based on chance events. These chance events have created the dream that everybody can easily become rich. This pursuit made gambling so popular. This book is devoted to the dynamics of the mechanical randomizers and we try to solve the problem why mechanical device roulette or a rigid body a coin or a die operating in the way described by the laws of classical mechanics can behave in such a way and produce a pseudorandom outcome. During mathematical lessons in primary school we are taught that the outcome of the coin tossing experiment is random and that the probability that the tossed coin lands heads tails up is equal to 1/2. Approximately at the same time during physics lessons we are told that the motion of the rigid body coin is an example of such a body is fully deterministic. Typically students are not given the answer to the question Why this duality in the interpretation of the simple mechanical experiment is possible. Trying to answer this question we describe the dynamics of the gambling games based on the coin toss the throw of the die and the roulette run. **Probabilistic**

Thinking Egan J. Chernoff, Bharath Sriraman, 2013-12-05 This volume provides a necessary current and extensive analysis of probabilistic thinking from a number of mathematicians, mathematics educators and psychologists. The work of 58 contributing authors investigating probabilistic thinking across the globe is encapsulated in 6 prefaces, 29 chapters and 6 commentaries. Ultimately the four main perspectives presented in this volume: Mathematics and Philosophy, Psychology, Stochastics and Mathematics Education are designed to represent probabilistic thinking in a greater context. **Subject**
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