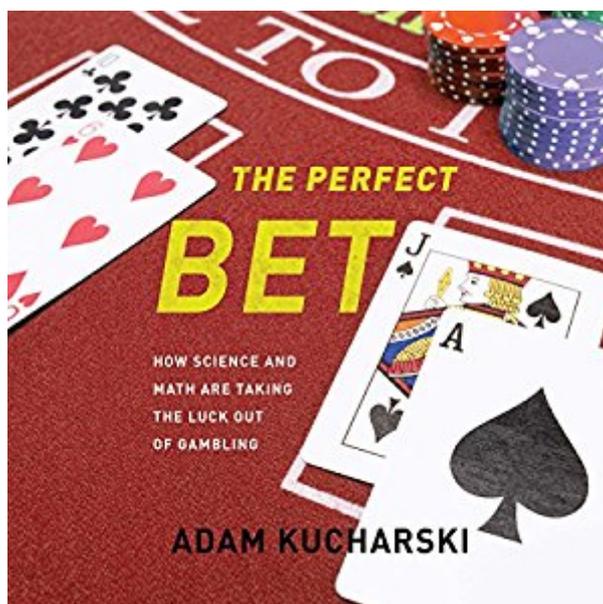# Perfect Bet: How Science And Math Are Taking The Luck Out Of Gambling

Synopsis

Bringing together ideas from mathematics, psychology, economics, and physics, The Perfect Bet traces the origins of successful betting methods. From the simple to the intricate and the audacious to the absurd, Adam Kucharski reveals the long and tangled history between betting and science and explains why gambling continues to generate insights into luck and decision making today. Covering exploits and ideas from across the globe, he meets the teams behind hedge funds that capitalize on inaccurate sports betting odds and explains how PhD-level pundits are using methods originally developed for the US nuclear program to predict sports results. Kucharski reveals why winning at chess depends on luck - but victory in checkers does not - and why poker is one of the ultimate challenges for artificial intelligence. He also explores the difficulties of mimicking human behavior and explains what caused one hedge fund's rogue algorithm to lose them $400,000 per second in the summer of 2012.

Book Information

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Customer Reviews

â œThe Perfect Betâ • has much interesting material on the application of science to gambling; science includes physics, statistical methods, probability theory, more general mathematical analysis and artificial intelligence. The writing is uneven, but better in the later chapters, although I wonder whether â œtrainingâ • in artificial intelligence is as self-explanatory as the author seems to assume. Kucharski has an annoying habit of jumping around in his discussions. Some of this is due to digressions, only some of which are really relevant; e.g. is it useful to discuss Fisherâ ™s work on experimental design as a background to the lottery problem of insuring that random outcomes do

not lead to undesirable results, like too long between winners? If you wish to give the reader a feel for regression, I find the discussion of Galtonâ ™s work on inheritance an odd choice, and in a book designed to be readable by everyone do you need to mention Markov simulation and even Markov chains? I looked up Markov simulation in Wikipedia, and the idea is to use Markov chains to help generate random numbers with a particular probability distribution. I had no idea that with the aid of cell phone capabilities you could use physics to beat roulette: cf. introductory anecdote to the chapter on roulette, although it is kind of buried much later in the chapter that the threesome were not using lasers, but probably using cell phone capabilities. The use of multiple decks by casinos to defeat card counters can be self-defeating if they do not shuffle enough, and the theory that tells how many times the casino needs to shuffle is also used to calculate the â œmixing timeâ • of chemical interactions.

Perfect Bet: How Science and Math Are Taking the Luck out of Gambling The Gambling Addiction Cure: How to Overcome Gambling Addiction and Problem Gambling for Life Cool Paper Folding: Creative Activities That Make Math & Science Fun for Kids!: Creative Activities That Make Math & Science Fun for Kids! (Cool Art with Math & Science) You Be the Judge: A Collection of Ethical Cases and Jewish Answers (Family Bet Din) Sing-Along Alef Bet Bet the Farm: How Food Stopped Being Food Hypnotically Enhanced Treatment for Addictions: Alcohol Abuse, Drug Abuse, Gambling, Weight Control and Smoking Cessation The Easy Way to Stop Gambling Gambling for Winners: Your Hard-Headed, No B.S. Guide to Gaming Opportunities with a Long-Term, Mathematical, Positive Expectation Perfect Phrases for the Perfect Interview: Hundreds of Ready-to-Use Phrases That Succinctly Demonstrate Your Skills, Your Experience and Your Value in Any Interview Situation (Perfect Phrases Series) Barron's ACT Math and Science Workbook, 2nd Edition (Barron's Act Math & Science Workbook) Cool Flexagon Art: Creative Activities That Make Math & Science Fun for Kids! (Cool Art with Math & Science) Bates' Nursing Guide to Physical Examination and History Taking (Guide to Physical Exam & History Taking (Bates)) [ENDOMETRIOSIS: THE COMPLETE REFERENCE FOR TAKING CHARGE OF YOUR HEALTH THE COMPLETE REFERENCE FOR TAKING CHARGE OF YOUR HEALTH] By Ballweg, Mary Lou (Author) 2003 [Paperback] Paul Yancey: Taking the High Road (Taking The High Road Series Book 8) Math For Everyone Combo Book Hardcover: 7th Grade Math, Algebra I, Geometry I, Algebra II, Math Analysis, Calculus Math in Focus: Student Workbook 2A (Math in Focus: Singapore Math) Bedtime Math: The Truth Comes Out (Bedtime Math Series) Picture Perfect Practice: A Self-Training Guide to Mastering the Challenges of Taking World-Class Photographs (Voices That

Matter) Math for Health Care Professionals (Math and Writing for Health Science)