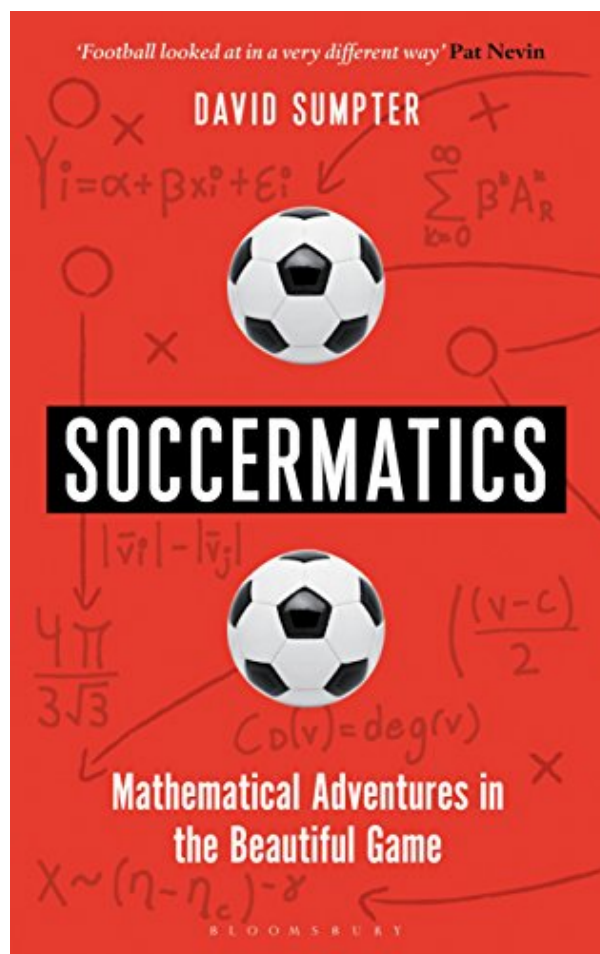


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ADVENTURES IN THE BEAUTIFUL GAME
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'Football looked at in a very different way' Pat Nevin

DAVID SUMPTER

$$Y_i = \alpha + \beta x_i^p + \epsilon_i$$
$$\sum_{k=0}^8 \beta^k A_R^k$$



SOCCEMATICS

$$|\bar{v}_i| - |\bar{v}_j|$$
$$\frac{4\pi}{3\sqrt{3}}$$
$$\left(\frac{v-c}{2}\right)$$
$$C_0(v) = \text{deg}(v)$$

Mathematical Adventures in
the Beautiful Game

$$X \sim (\eta - \eta_c)^{-\alpha}$$

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Review

"Drawing on stats, physics and natural phenomena, a math professor and amateur coach explains everything from the geometry of passing to managerial strategy to predicting performance. The book is full of game theory and diagrams of famous plays." - Steven Goff, The Washington Post roundup of soccer books

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About the Author

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Football – the most mathematical of sports. From shot statistics and league tables to the geometry of passing and managerial strategy, the modern game is filled with numbers, patterns and shapes. How do we make sense of them? The answer lies in the mathematical models applied in biology, physics and economics.

Soccermaths brings football and mathematics together in a mind-bending synthesis, using numbers to help reveal the inner workings of the beautiful game.

How is the Barcelona midfield linked geometrically?

What's the similarity between an ant colony and Total Football, Dutch style?

What can defenders learn from lionesses?

How much of a scoreline is pure randomness and how much is skill?

How can probability theory make you money at the bookies?

Welcome to the world of mathematical modelling, expressed brilliantly by David Sumpter through the prism of football. No matter who you follow – from your local non-league side to the big boys of the Premiership, La Liga, the Bundesliga, Serie A or the MLS – you'll be amazed at what mathematics has to teach us about the world's favourite sport.

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Science friendly

By AE3A

Great book! As someone who works on public health-epidemiology I'm used to statistical models, this book illustrate how soccer can be use as means of explaining this models as well as how it can enrich research in all areas. Is good in math and soccer level, is great to give you insights, particulary if you do research in any area or if you like soccer and wanna get into the somewhat cryptic math of its statistics in order to filter the bs from media expert. If you what you are looking for is "magic bullet" book for gambling, this won't be case.

0 of 0 people found the following review helpful.

Good to see it is not only the players having adventures in soccer!!

By Brian

Very enjoyable read with a range of good information on the game and mathematical approaches to analysing parts of it. Of particular interest was the cross pollination of research into animals with football. The book was broken up into easily digestible chunks that held the interest from start to finish and were not overly academic in nature. The layers within each chunk were built up sequentially and left one thinking that one knew something of the process, the maths involved and the utility of the work at the end of the chunk. Interspersed with good elements of humility and humour I found it well written for the layman (me) and the depth there for budding mathematicians, football managers and researchers. Worth the cost of purchase for me. Looking forward to seeing more from this author.

0 of 0 people found the following review helpful.

Quick read, interesting concepts

By Andrew J. Stershic

I definitely liked the premise of the book, applying mathematic techniques to analyze soccer, and the author

presented his work in an approachable manner. While I think the math presented was simple enough, I could have handled more and wish the book was a little more in depth.

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