

tennis science

Edited by MACHAR REID, BRUCE ELLIOTT & MIGUEL CRESPO

how player and racket
work together



the science
to improve
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The Science Of Tennis

Edward Bury Dewhurst



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Tennis Science for Tennis Players Howard Brody, 2010-11-24 How does your opponent put that tricky spin on the ball? Why are some serves easier to return than others? The mysteries behind the winning strokes, equipment, and surfaces of the game of tennis are accessibly explained by Howard Brody through the laws of physics. And he gives practical pointers to ways players can use this understanding to advantage in the game. Through extensive laboratory testing and computer modeling, Brody has investigated the physics behind the shape of the tennis racket, the string pattern, the bounce of the tennis ball, the ways a particular court surface can determine the speed of the game, and the many other physical factors involved in tennis.

Tennis science : optimizing performance on the court Bruce Elliot, Machar Reid, 2015-10-02 With more than 75 million people worldwide playing the game and many millions more watching Grand Slam tournaments, tennis is truly a global sport. So how do tennis players harness their physiology and the laws of physics to achieve success? Tennis Science uncovers the science within the game, bringing together the study of biomechanics with stroke development, psychology, and the technical development of equipment and playing surfaces.

Tennis Science Bruce Elliott, Machar Reid, Miguel Crespo, 2015-10-26 If you have watched a Grand Slam tennis tournament in the past decade, you are probably aware that the game is dominated by just a few international powerhouses. At the conclusion of each tournament, it is likely that you will see Serena Williams atop the women's podium and a member of the Big Four—Roger Federer, Rafael Nadal, Novak Djokovic, and Andy Murray—hoisting the trophy for the men. And while there is not a lot of variety in the outcome of these matches, the game of tennis itself has changed drastically over the decades as developments in technology and conditioning regimens, among other factors, have altered the style of play. Underpinning many of these developments is science, and this book explains the scientific wonders that take the ball from racket to racket and back again. Each chapter explores a different facet of the game: learning technique, game analysis, the mental edge, physical development, nutrition for performance and recovery, staying healthy, and equipment. The book is organized around a series of questions: How do we learn the ins and outs of hitting the ball in and not out? What are the main technological developments and software programs that can be used to assist in performance and notational analysis in tennis? What role does sports psychology play in developing a tennis player? What is the role of fluid replacement for the recreational, junior, and professional player? What rule changes have been made with respect to the racket, ball, and ball-court interaction to maintain the integrity of the game in the

face of technological change Each question is examined with the aid of explanatory diagrams and illustrations and the book can be used to search for particular topics or read straight through for a comprehensive overview of how player and equipment work together Whether you prefer the grass courts of Wimbledon the clay courts of the French Open or the hard courts of the US and Australian Opens Tennis Science is a must have for anyone interested in the science behind a winning game

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