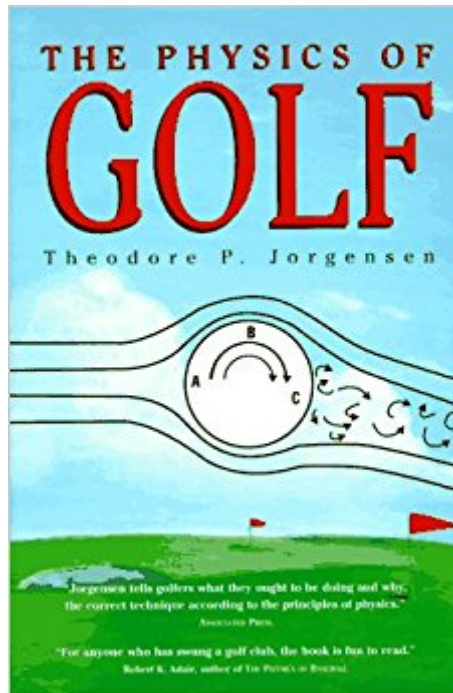




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# The Physics Of Golf



## Synopsis

A book for the interested scientist on the physics of golf, with emphasis on the physics of the golf swing, based on the author's research over the past quarter century. The book applies the principles of dynamics and energy to an analysis of the golf swing, the golf club and the golf ball and contains throughout discussions of how knowledge of these principles can be used to improve one's game, choose the right clubs and even better understand the handicap system. The introductory chapter contains a history of the development of golf club and ball. The book contains a technical appendix for the reader who would like to pursue the physics in more technical detail.

## Book Information

Paperback: 200 pages

Publisher: Amer Inst of Physics (January 1994)

Language: English

ISBN-10: 0883189550

ISBN-13: 978-0883189559

Product Dimensions: 0.5 x 6.2 x 9.2 inches

Shipping Weight: 11.2 ounces (View shipping rates and policies)

Average Customer Review: 3.9 out of 5 stars 34 customer reviews

Best Sellers Rank: #3,819,040 in Books (See Top 100 in Books) #23 in Books > Sports & Outdoors > Miscellaneous > Sports Science #507 in Books > Science & Math > Physics > Applied #4717 in Books > Sports & Outdoors > Golf

## Customer Reviews

From the reviews: "â | Gives new insights and precise views into the forces and torques developed in the downswing.... Thank you, Dr. Jorgensen...We will all treasure your book." American Golf Pro "The heart of golfer Ted Jorgensen's delightful book lies in his analysis of the swing of the golf club and how, armed with insights from that analysis, you, he and I might all swing the club better and play better golf . . . [The book] is designed to be accessible to the casual reader while satisfying the critical student. But first word or last, for anyone who has swung a golf club, the book is fun to read." Physics Today (BOB ADAIR, AUTHOR OF PHYSICS OF BASEBALL) --This text refers to an alternate Paperback edition.

My boyfriend, an AVID golfer, really loves this book (I gave it to him as a Christmas present). I myself don't understand the swing the way he does, but he says this book is really interesting and

has helped him out. It seems very technical so if you're looking for something that illustrates the swing with large pictures and step-by-step instruction then this isn't for you; but if you want to get deep into mechanics and why things happen the way they do, you'll enjoy it!

It is my desire to be nice with these reviews, but this book needs some major work. On p. 6 is the stroboscopic photo from which all the data are collected. It would be helpful if the light traces were labeled and explained more clearly. There appears to be tape at both the bottom of the handle and the end of the club. This little 12" is really critical and deserves better analysis. After all, the handle of the club is your only point of control over the clubhead. Then there are all those extraneous light traces for the elbows and who knows what else. Bottom line, the book is out of date relative to modern video and computer equipment. FYI, many years ago, my grad school mentor, the great University of Houston golf coach and mathematics professor, Dave Williams, published a similar analysis. There are some obvious errors, at least to a kinesiologist. The major part of the analysis concerns the dynamics of the angle formed between the left forearm and the shaft. Figure 2.3, on page 9 and the supporting data tables in the appendix, show an angle that cannot exist in a normal human. The Scaphoid bone in the wrist limits the angle between the club and the forearm to no more than 90 degrees. This analysis is flawed. The reporting of this too large angle is a result of optical delusion existing between a 2D image and a 3D golf swing. This makes you wonder about the affect on the math. The second major problem is the use of a two lever model to describe a two sided human swing motion. While it is true the right side does not act as a large power source (more of a stabilizer), none the less gravity and a small amount of muscle does contribute to the movement of the club. The muscles that add force are not in the arms. They are in the chest. I see not mention of the force coupling between the top hand and the bottom hand. As the end of the handle slows its forward motion just prior to impact, the bottom hand continues to move forward. While, timing the swing so this "whipping" action increases clubhead speed, is difficult, it is not impossible. What may be needed is a better teaching model based on something closer to a seven lever model which more accurately describes what the human body is doing to the club. As a compliment to the book, Dr. Jorgensen does correctly describe the kinetic link/summation of segmental velocities which

I do agree with the author that mechanical physics can and should explain explain golf, unfortunately for me I did gained and understand only small part of the book scope and promise.. I have some basic understanding of Newton Physics and still I have difficulty in understanding the mathematical and technical stuff in this book maybe because there is much to be improved in the

quality of the Pictures, Figures, Mathematical Equations and the clarity of the text..

This book could be at the heart of an episode (maybe a two part) trying to reduce golf down to simply the physics behind it. And it helps smarten up the the between hole conversation as you try to explain why you sliced/hooked/bladed/blocked or otherwise mucked up a shot, missed a putt or what you are working on to improve your transfer of energy form one axis to another one.

This book is about learning and not teaching. BEFORE the first chapter, one is taught that the hands almost stop at the bottom of the perfect golf swing. It is also explained that many reject this thought "out of hand." To learn this you must practice what is then taught in the book. "The only way to learn", Jorgensen told me. That is "why Physics is experimentation

This is a terrific product, comfortable, functional and nicely proced.

Got the grandson through an eighth grade physics report with the help of the information in this book. He got an A!

Great reference book!

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