

# It's all in the Game!

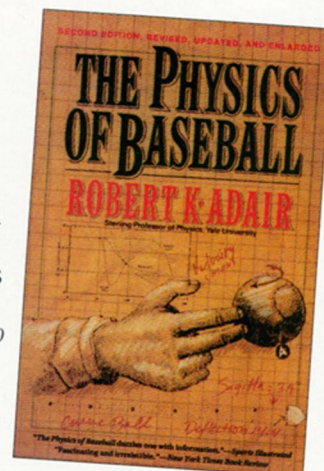
## The Physics of Baseball

### Did you know...

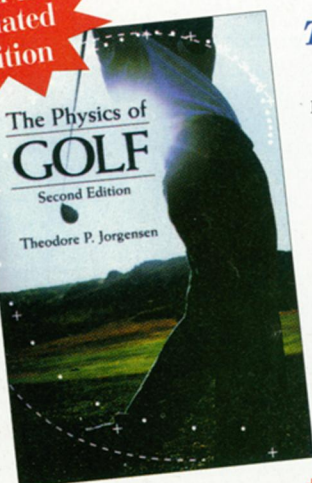
- + An average head wind (10 miles per hour) can turn a 400-foot home run into a 370-foot out?
- + A curve ball that seems to break over 14 inches never actually deviates from a straight line by more than 3½ inches?
- + There is no such thing (except in softball) as a rising fastball?
- + That a batted ball should be able to travel no farther than 545 feet?

Blending scientific facts and sports trivia, Robert Adair examines what a baseball does when thrown or batted under certain conditions—and why. This completely revised edition of *The Physics of Baseball* contains new information about baserunning, long home runs, shagging flies, and how the higher altitudes in Denver (home of the Colorado Rockies) affect batted and pitched balls. Complete with understandable charts and graphs, baseball lore, and entertaining anecdotes about various players and incidents, *The Physics of Baseball* will delight and entertain baseball fans and physics enthusiasts and provide a whole new perspective on the game.

—from HarperPerennial *HarperPerennial*, 1994, 142 pages, 5½" x 8", paperback, \$12.00



Brand-new Updated Edition



## The Physics of Golf

Improve your golf game by learning the underlying fundamentals of the golf swing in this acclaimed, unique contribution to the sport. Finally, you'll understand:

- + Why shortening your backswing doesn't substantially decrease clubhead velocity
- + What components contribute to the optimal swing and what variations are acceptable
- + How and why properly shifting your weight adds to distance
- + Why a golf ball behaves and spins as it does

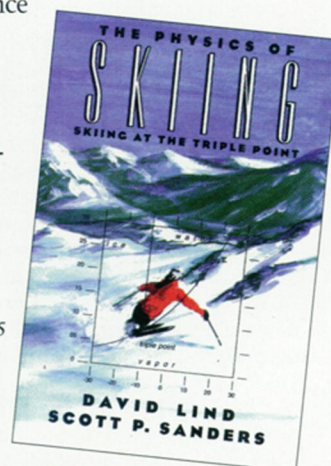
And much more.

Written by a physicist after some 20 years of research, *The Physics of Golf* is the only book devoted exclusively to explaining the science behind a successful golf game. Technical appendices offer details for those so inclined.

The revised and expanded second edition now offers:

- + New material on high-tech club designs
- + A new chapter on short putts
- + Additional applications of physics to the problems every player faces.

—from AIP Press *Springer-Verlag*, 1999, 189 pages, 6" x 9½", paperback, \$29.95



## The Physics of Skiing

In many sports, the properties of the playing field are relatively fixed and unchanging, and they remain so during the course of play. That is definitely not true in skiing. In fact, skiing can only be done on a playing field whose basic physical properties change. The concept of skiing at triple point—where the three possible states of water (solid, liquid, and vapor) coexist—is key to this book.

*The Physics of Skiing* examines the many forces and properties that come together in this sport to give us the rush of carving a smooth, parallel turn on fresh-powder snow. The authors focus on the three principal classes of skiing—alpine, Nordic, and adventure—and examine all aspects of ski equipment and its relation to snow in these circumstances. Drag, friction, aerodynamics, and how these physical principles affect balance, edging, and wedging all come into play as Lind and Sanders analyze each aspect of the sport. —from AIP Press *Springer Verlag*, 1996, 268 pages, 6" x 9½", paperback, \$26.00

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