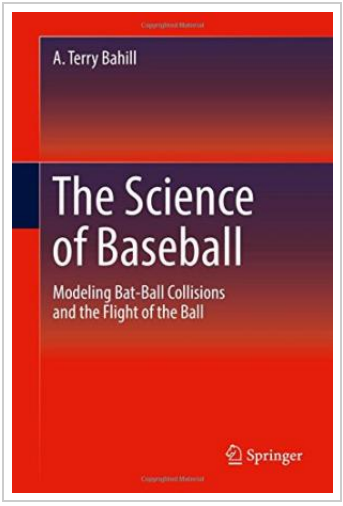

The Science of Baseball : Modeling Bat-Ball Collisions and the Flight of the Ball

By Terry A. Bahill

Springer-Verlag Gmbh Jan 2018, 2018. Buch. Condition: Neu. Neuware - This book describes the dynamic collisions between baseballs, softballs, and bats, and the intricate modeling of these interactions, using only Newton's basic principles and the conservation laws of physics. Veteran baseball science author Terry Bahill explains models for the speed and spin of balls and bats and equations for bat-ball collisions at a level accessible to high school and undergraduate physics students, engineering students, and, most importantly, students of the science of baseball. Unlike other, more technical accounts of these phenomena that exhibit similar rigor, the models presented in this volume use only basic physical principles to describe simple collision configurations. Elucidating the most important factors for understanding bat performance-bat weight, moment of inertia, the coefficient of restitution, and characteristics of humans swinging the bats, Dr. Bahill also explains physical aspects of the ideal bat and the sweet spot. - Explains how to select or design an optimal baseball or softball bat and create models for bat-ball collisions using only fundamental principles of mechanics from high school physics; - Describes the results of the collision between baseball and bat using basic mathematics such as equations for the speed of the...

Reviews

The ebook is great and fantastic. We have read and i also am sure that i am going to likely to go through once again again down the road. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- ***Erica Turcotte***

Thorough information! Its this sort of good read. It is actually writter in straightforward words rather than confusing. I am just delighted to let you know that this is basically the best book we have read within my personal existence and can be he greatest pdf for actually.

-- ***Dr. Henri Crona II***