

1. Record Nr.	UNINA9910149367803321
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Titolo	Sports math : an introductory course in the mathematics of sports science and sports analytics / / Roland B. Minton, Roanoke College, Salem, Virginia, USA
Pubbl/distr/stampa	Boca Raton, Florida : , : CRC Press, , [2017] ©2017
ISBN	1-4987-0632-0 1-315-37160-X 1-4987-0629-0
Descrizione fisica	1 online resource (279 pages) : illustrations, photographs, tables
Collana	Textbooks in Mathematics
Disciplina	796.0151
Soggetti	Sports - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A Chapman & Hall book"--title page.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1. Projectile motion -- 2. Rotational motion -- 3. Sports illusions -- 4. Collisions -- 5. Ratings systems -- 6. Voting systems -- 7. Saber- and other metrics -- 8. Randomness in sports -- 9. Sports strategies -- 10. Big data and beyond.
Sommario/riassunto	Can you really keep your eye on the ball? How is massive data collection changing sports? Sports science courses are growing in popularity. The author's course at Roanoke College is a mix of physics, physiology, mathematics, and statistics. Many students of both genders find it exciting to think about sports. Sports problems are easy to create and state, even for students who do not live sports 24/7. Sports are part of their culture and knowledge base, and the opportunity to be an expert on some area of sports is invigorating. This should be the primary reason for the growth of mathematics of sports courses: the topic provides intrinsic motivation for students to do their best work. From the Author: "The topics covered in Sports Science and Sports Analytics courses vary widely. To use a golfing analogy, writing a book like this is like hitting a drive at a driving range; there are many directions you can go without going out of bounds. At the driving range, I pick out a small target to focus on, and that is what I have

done here. I have chosen a sample of topics I find very interesting. Ideally, users of this book will have enough to choose from to suit whichever version of a sports course is being run." "The book is very appealing to teach from as well as to learn from. Students seem to have a growing interest in ways to apply traditionally different areas to solve problems. This, coupled with an enthusiasm for sports, makes Dr. Minton's book appealing to me." -Kevin Hutson, Furman University

Features Provides an introduction to several topics within the field of sports analytics Contains numerous sports examples showing how things actually work Includes concrete examples of how Moneyball ideas actually work Covers sports illusions (can you really "keep your eye on the ball") in a unique way Discusses many of the concepts, terms, and metrics that are new to sports
