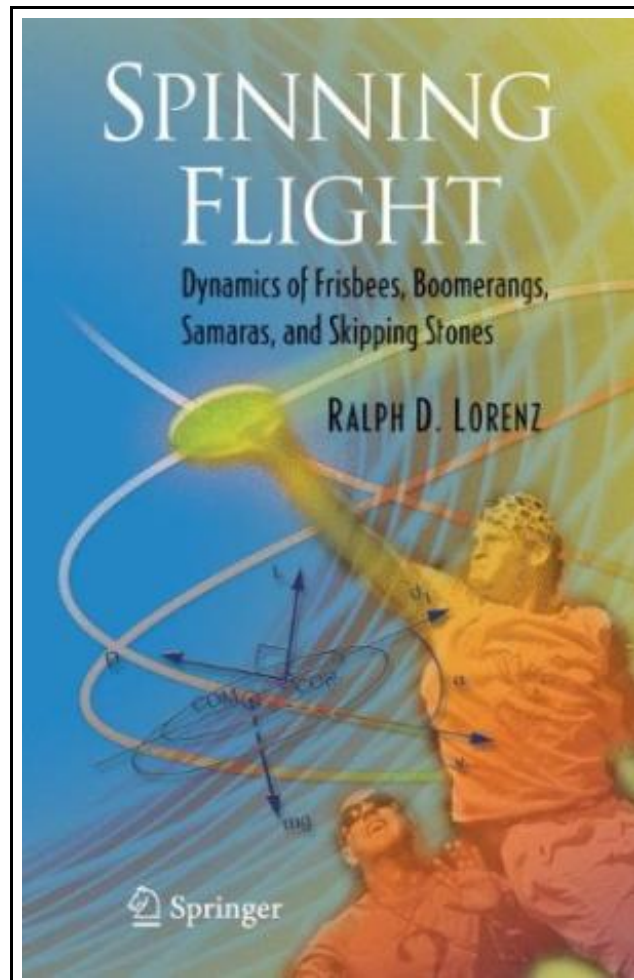


Spinning Flight



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Reviews

A high quality book and also the typeface utilized was exciting to read. This really is for anyone who statte there was not a worthy of reading. I am easily will get a enjoyment of reading a written ebook.
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SPINNING FLIGHT



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Springer-Verlag Gmbh Sep 2006, 2006. Buch. Book Condition: Neu. 235x193x28 mm. Neuware - More frisbees are sold each year than baseballs, basketballs and footballs combined. Yet these familiar flying objects have subtle and clever aerodynamic and gyrodynamic properties which are only recently being documented by wind tunnel and other studies. In common with other rotating bodies discussed in this readily accessible book, they are typically not treated in textbooks of aeronautics and the literature is scattered in a variety of places. This book develops the theme of disc-wings and spinning aerospace vehicles in parallel. Since many of the examples are recreational, anyone who enjoys these activities will likely find it profitable and enjoyable. In addition to spinning objects of various shapes, several exotic manned aircraft with disc planforms have been proposed and a prototypes built - these include a Nazi 'secret weapon' and the De Havilland Avrocar, also discussed in the book. Boomerangs represent another category of spinning aerodynamic body whose behavior can only be understood by coupling aerodynamics with gyroynamics. The narrative, supported by equations and graphs, explains how the shape and throw of a boomerang relates to its trajectory. The natural world presents still other examples, namely the samaras or 'seed-wings' of many tree species, which autorotate during their descent, like a helicopter whose engine has failed. The flight performance of these spinning wings directly affects the dispersal and thus the evolutionary competitiveness of the trees concerned. Samara-type configurations are also considered for instrumentation and other payload dispersal applications. In short, the book discusses a range of familiar, connected, but largely undeveloped, topics in an accessible, but complete, manner. From the reviews of the first edition: 'In his fascinating book Spinning Flight, Ralph Lorenz provides a rich feast of . examples of spinning bodies . . The book...



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