



The Science of Hockey: Volume 1: Data Graphs for Science Lab

By M. Schottenbauer

Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 92 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. Learn about the Physics of Hockey! Field, Street, and Ice Hockey! Force, Motion, Velocity, and Acceleration! In this book, readers gain access to real scientific data pertaining to the science of hockey, promoting graph-reading, comparison, contrast, and calculation skills. Graphs show data from the following scientific instruments: Video Analysis Dual-Range Force Meter This book allows readers to analyze real data without purchasing expensive lab equipment. Graphs show the motion of hockey balls and pucks as they move across a variety of surfaces. Data are presented for a field hockey ball, two street hockey balls (high density and low density), an official ice hockey puck, a practice ice hockey puck, and an air hockey table puck. Surfaces include carpet, wood, ice, synthetic ice, and air table with and without the friction-reducing effects of air. Additional coordinated graphs show the impact forces associated with movement over a flat surface, as well as the forces required to push a puck continuously for a specific distance. Graphs of collisions between moving objects (ballspucks) and a wood sideboard are also included. These data can be used...



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