

Technical Analysis of the Floorball Ball Motion Characteristics

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key words

air drag, attached mass, compressor effect, direct and eccentric impacts, stability, accuracy

In this article, for the first time, based on special laboratory studies, we described the characteristics of the movement of the original floorball when performing various throws and strikes on it, as attacking actions. Thus, it was found that a ball with holes has a drag coefficient about 1,5 times greater than a ball without holes. The drag force of a non-rotating ball with holes is also about 1,5 times greater than that of a solid ball. The preliminary theoretical calculations on the air resistance to the flight of this ball, based on taking into account the smaller mid-section, which should have reduced the drag, are refuted. Shown opposite results on the basis of which, in particular, not seek to spin the ball a feather stick at various floorball throws, and the use of the high stability of ball in flight for greater accuracy of shots.

In our opinion, the methodological recommendations formulated on the basis of the conducted research will help to optimize the process of training floorball players at any stage, increase the speed and accuracy of throws and strikes, which are the most important components of the game.

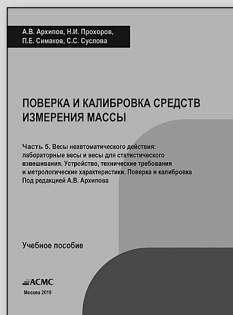
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НОВАЯ КНИГА

Архипов А.В., Прохоров Н.И., Симаков П.Е., Сулова С.С.

Поверка и калибровка средств измерения массы



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