

回流水槽における流速の分布

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1991-08-23 00:00:00+09受理

Distribution of the Velocity of a Flowing Fluid at the Swimming Flume

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(Accepted 1991-08-23 00:00:00+09)

Key words:swimming flume, velocity of a flowing fluid, distribution

要約

水泳運動におけるトレッドミルといわれる回流水槽の水流の速度の分布を検討した。速度は2.2m/秒まで出すことが可能である。水流の速度は0.25mと0.70mの水深にて、それぞれ9箇所測定した。我々は以下のような結果を得た。1)回流水槽の両サイドの流速は中央部より速く、2)水深0.25mでは上流の流速が下流の流速より速く、3)水深0.70mでは下流の流速が上流の流速より速かった。 It was studied the distribution of the velocity of a flowing fluid in a swimming flume i. e., a kind of swimming "treadmill". The speed can be varied to 2.2m/sec. The velocity of a flowing fluid was measured at 0.25m and 0.70m deep each nine points. We obtained the following results : 1) the velocity was faster at the both sides of a swimming flume than middle loop, 2) the velocity was faster at the upper stream than lower one in the 0.25m deep, 3) the velocity was faster at the lower stream than upper stream in the 0.70m deep.
