

عنوان مقاله:

check the dynamic response of a punch to human head

محل انتشار:

دومین کنفرانس بین المللی دستاوردهای نوین پژوهشی در مکانیک، صنایع و هوافضا (سال: 1395)

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خلاصه مقاله:

Brain hurt due to a strike to head is a serious and important social and public health problem and has attracted the attention of many researchers in recent years (Chen, 2011). These harmes may occur in some cases without any apparent brain hurt but may lead to severe marrowy hurts, unconsciousness and finentirey death. The athletes in fighting sports like boxing, karate, taekwondo are exposed to hard strikes to headenimpositiond by frequent and targeted strikes to rival's body and mainly to the head. Superficial brain harmes due to strikes are very joint in these sports. Most of brain harmes and traumas occur due to direct and frequent strikes from near distances to the head in martial arts competitions. Although these frequent strikes may seemingly have no alarming primary effects, they reason frequent traumas in brain inside the skull and thisconclusion in internal bleeding and finentirey serious problems which lead in some cases to death. When a hard strike is delivered to head, there may be no apparent bleeding or skull fracture, but that strike may have reasond an internal marrowy hurt which may further lead to contusion, blood vessel rupture or hurt to cranial nerves. Most of the previous perusales have investigated the strike to head and the biomechanics of hurts sustained following concussion due to traffic incidents or incidents in sports like footbentire and several perusales have deal with concussions due to direct punches to head and frequent strikes for investigated the imposition of the direct punches of (2005). getting points in martial arts competitions. Walilko et al seven Olympic boxers in five various weight classes using a three dimensional model and calculated the average perusaled the punch imposition (2005). linear and angular pelt and reached to a measure for marrowy hurt. Viano et al 3D model. They investigated not just the direct punch but also hook and uppercut of eleven Olympic boxers with a strikes in this investigation and came to the conclusion that punches reason less harmes bereason of the short time of 3D skull used a (1999). accelerating and therefore do not meet the measure for brain hurt in short time. Al-Bsharat et al model to investigate the role of impact velocity in themagnitude of produced cranial stress during a front strike. They achieved the magnitudes of communication imposition and intracranial pressure for the applied imposition. Zong et al 3D limited element model of human head in their investigation and analyzed it to assess the available a (2006) ... possibility of head harm due to the applied strikes. The h

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