Contribution ID: **172** Type: **Poster**

Study Motion of PVC-Cylindrical on Incline Plane using g-Sensor Compare with Motion Simulate

Wednesday 24 May 2017 15:45 (15 minutes)

The g-sensor with a wireless, using to study motion of hollow PVC-cylindrical on incline plane.This sensor will packed inside PVC-cylindrical. For experimental,We drop the PVC-cylindrical on the top of incline plane length 1.2 m.By changed high of plane at 3.5, 4.5, 5, 5.5, 6 and 6.5 cm relate to angle 0.0318, 0.0409, 0.0454, 0.0499, 0.0545 and 0.0590 rad respectively. The signal from the sensor will send pass wireless to computer and show in hyper-terminal. The data will be compare with simulate signal to determine speed and angular speed various with time.For result data at high 3.5, 4.5, 5, 5.5, 6 and 6.5 cm compare with simulate data motion has error are 3.12%, 3.89%, 4.71%, 6.28%, 9.36% and 18.20% respective. From experiment, we can find limit of this sensor for this experiment at high 8 cm.Because clock frequency limit of sensor.

Authors: Mr NGAMRUNGROJ, Dusit (KMUTNB); Mr CHANGSUPAN, Prakasit (KMUTNB)

Co-authors: Mr THANTHONG, Pisut (kmutnb); Mr PUTCHANA, Wuttichai (KMUTNB); Mrs HONGLEARTKONGSAKUL, kanchaya (BUU)

Presenter: Mr NGAMRUNGROJ, Dusit (KMUTNB)

Session Classification: Poster Presentation I

Track Classification: Physics Education