

ABSTRACT

Abstract. The avalanches can be simulated using the Savage-Hutter with Finite Volume Method (FVM) models as a numerical solution in one dimension. The scheme used in the Finite Volume Method here is the Staggered Grid Scheme. The purpose of this paper is to observe landslide movements based on different types of sediments on sloping inclines with the same initial sediment height. The results of the simulation are to produce landslide velocity and landslide height values. Each type of sediment has different velocity and height of landslides is affected by the shear angle and the internal angle of the soil. From the simulation that has been done, the average velocity of each sediment is obtained. Here are the average speeds for sediment *Yellow Sand* = 33.7216, *Rice* = 32.5029, *Quartz* = 21.8533 at $t = 1.0s$.