MODELING OF SNOW DRIFT VELOCITY IN HILLY TERRAIN

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Abstract

Snow-drift velocity has been estimated by using momentum and mass equation approach with an assumption that the flow of snow particles to be represented by the micro-continuum approach (couple stresses fluid [1]).The present approach is compared to conventional classical approach of logarithmic law of wind velocity [2]. It is shown that, the present approach yield better results than that of conventional approach. The utility of the snow-drift velocity in avalanche forecasting is highlighted.