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Two-phase mass flow is characterized primarily by the relative motion between the solid and fluid phases that appear in natural phenomena such as avalanches and landslides. These flows are modeled by a system of non-linear partial differential equations. The most general model has been developed by Pudasaini (2012). We will discuss a recent progress in the study of this model, in particular, we will discuss its symmetries and consequences. This work is joint with Dr. S. Kandel, Dr. S. P. Pudasaini. (Received September 07, 2019)