



Dam-breaks of viscoplastic material

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Visco-plasticity provides a reasonable, or starting, approximation for many geophysical materials: mud, snow and lava. In many circumstances, say, landslides the material begins to flow abruptly and a model for this type of flow - the release of a constant mass of material - is undertaken. It turns out that a rheometric device, the Bostwick consistometer, uses this flow to attempt to classify the rheology and some interpretation of experiments versus the model is undertaken.