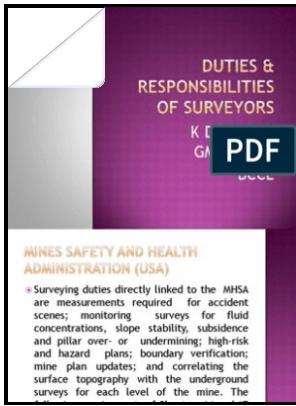


# Subsidence due to undermining of sloping terrain - a case study

**U.S. Dept. of the Interior, Bureau of Mines - Landslides And Undermining: Slope Stability Interaction With Mining Subsidence Behaviour**



Description: -

- Manzoni, Giacomo, 1932- -- Criticism and interpretation.  
Longwall mining -- Pennsylvania.  
Mine subsidences -- Pennsylvania. Subsidence due to undermining of sloping terrain - a case study

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Notes: Includes bibliographical references (p.10).  
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## Subsidence due to undermining of sloping terrain : a case study

This has led to numerous property damage liability claims against mining companies even many years after the mining activities have stopped. A rays projection method is analytically developed to derive the subsidence components on the sloping ground surface from the corresponding ones on an assumed equivalent horizontal surface through the point of the mean elevation of the sloping surface above the extracted panel. Since Bergen has close to no isostatic land uplift, the progressing shoreline of today is due to filling of the anthropogenic material such as waste into the bay area, Vågen.

## NIOSHTIC

Thanks to the Norwegian Hydrology Council for the NHC2018 conference in Bergen and this special conference issue.

## Utilization of engineering geology in geo

The latest available PSI data and a new and updated flood model based on the latest and most detailed DEM and topographic data should be used before selecting areas in a potential follow-up of this study. In addition to this, drained soils as a result of increased.

## A case study of undermining impoundment embankments by the longwall mining method

Trees and other vegetation can have a significant local effect on seasonal drying of soils. The pluvial flood event of August 2011 in Shanghai, China is used for model calibration and simulation. If building foundations are above the level reached by seasonal drying, they move, possibly resulting in damage to the building in the form of tapering cracks.

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