



Advances in Discontinuous Numerical Methods and Applications in Geomechanics and Geoengineering (Mixed media product)

By -

Taylor Francis Ltd, United Kingdom, 2012. Mixed media product. Condition: New. New.. Language: English . Brand New Book. Rocks and soils can behave as discontinuous materials, both physically and mechanically, and for such discontinuous nature and behaviour there remain challenges in numerical modelling methods and techniques. Some of the main discontinuum based numerical methods, for example the distinct element method (DEM) and the discontinuous deformation analysis (DDA), are associated with geomechanics and geoengineering. Discontinuous numerical methods have been widely applied in geoengineering related to civil, mining, hydropower and petroleum engineering. There are many good examples of the use of UDEC/3DEC and DDA in design and forensic of geoengineering projects, in dams, slopes, tunnels, caverns and mines. The discontinuous numerical methods provide good tools to capture the true physical and mechanical behaviours of the geomaterials, and provide the scientific insights enabling for better engineering. Discontinuous numerical methods are indeed very much research and engineering tools of the present, and certainly more in the future. Advances in Discontinuous Numerical Methods and Applications in Geomechanics and Geoengineering is a collection of 55 technical papers presented at the 10th International Conference on Analysis of Discontinuous Deformation (ICADD-10), held 6-8 December 2011, Honolulu, USA. The...



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