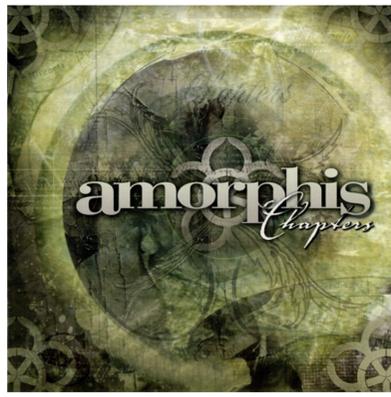


Flac 2d Full Version Torrent



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A number of extensions exist to support applications in geomechanics. FLAC-CFD (FLAC-Conditioned Fluid Dynamic) is a CFD code that supports FLAC analyses. The computational implementation is limited to 2D (planar) or 3D (or even 4D) analyses. Also, FLAC-CFD has a limited ability to handle 3D geometries. History The first numerical modeling software for geomechanics and ground support analysis was developed in 1982 by Dr. Dean Hansell at the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS) Geotechnical Branch (GB) at the Southern Regional Research Center (SRRC) in New Orleans, LA. The ARS developed FLAC for soil/rock material problems where a two- or three-dimensional problem requires accurate analysis. The FLAC analysis involves specific stress-strain conditions applied to soil or rock masses. A rock or soil mass is a continuous, solid body. The material properties (e.g., elastic modulus, tensile strength, shear strength, angle of internal friction, and cohesion) are stored and calculated for each grain. FLAC was written in FORTRAN. Input data can be the results of a test or from a previous analysis. The analysis can be a steady state (static) or dynamic (cyclic) analysis. Features The general form of FLAC input data are: 1. The mesh (which can be automatically generated) on the model. 2. The "seed" number for the mesh. 3. A "table" of points, lines, and planes. 4. Other miscellaneous points and lines for optional points and lines. The output is the mesh of the solid body, points that are broken, fibers that intersect the solid body, and lines that are fractured. A typical model consists of about 2,000,000 to 5,000,000 points that take about ten to 30 minutes to model depending on the complexity of the model and the computer. The model data can be stored in ASCII or ASCII-85 format. The analysis is 2- or 3-dimensional (static or cyclic). Different analyses can be performed on the same model, or the same model can be analyzed for several sets of data. FLAC was originally written for models in non-flat, three-dimensional space. It was recently 82157476af

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