

Interpreting Stereonets Structural Analysis

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Interpreting Stereonets Structural Analysis

Lab objectives: understand the geometry of the stereographic projection. understand the projections uses in structural analysis. be able to plot by hand strike and dip and trend and plunge on a stereonet. be able to use a program to plot and contour orientation data. be able to interpret the patterns on such plots.

Lab 5: Structural Analysis using stereonets

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Introduction to stereonets A stereonet is a lower hemisphere graph on to which a variety of geological data can be plotted. Stereonets are used in many different branches of geology and can be used in a range of ways beyond those which are discussed here (see references for further uses). Stereographic projection involves plotting 3D data (planar or

Introduction to Structural Geology

Stereonets are a graphical tool representing the hemisphere of a globe, used for presentation, analysis and interpretation of three-dimensional directional data such as planes and lines. A stereonet allows the stereographical projection of three-dimensional information onto a two-dimensional plane (usually as a piece of paper or computer image) and is used as a tool applied to a range of geological problems including the removal of structural tilt.

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How to interpret fold data on a stereonet by Dr Jacqui Houghton. This is part five of a series of videos used on the first year Structural Geology course at ...

Interpreting fold data on stereonets - YouTube

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Interpreting Stereonets Structural Analysis

Equal-area stereonets are used in structural geology because they present no statistical bias when large numbers of data are plotted. On the equal-area net area is preserved so, for example, each 2 degrees polygon on the net has the same area. In structural geology the st ereonet is assumed to be a lower-

Supplementary Notes: Stereonets

Stereonet analysis part 2. Contouring and interpreting orientation data. In trying to document the character of structural elements it is not uncommon to have hundreds of orientation readings. Trying to interpret such data plotted as raw orientations (scatter plots) on a stereonet, without further data treatment is difficult and susceptible to bias.

Stereonet analysis of data from Arbuckle mountains near ...

In geometry, the stereographic projection is a particular mapping (function) that projects a sphere onto a plane. The projection is defined on the entire sphere, except at one point: the projection point. Where it is defined, the mapping is smooth and bijective. It is conformal, meaning that it preserves angles at which curves meet.

Stereographic projection - Wikipedia

Interpreting Stereonets Structural Analysis of stereonets in structural analysis it is helpful to understand the 3-D geometry that is being represented on the 2-D stereonet projection plane. The diagrams below attempt to show you that geometry in three stages, each more complex.

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Figure 12-2 : Plot of strain axes and foliation.12-3 Figure 12-3 : Undeformed and deformed strain marker reference used for derivation of formulae.