

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 stereonet

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Interpreting Stereonets Structural Analysis of stereonet 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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Interpreting Stereonets Structural Analysis I. Graphical Representation of Lines and Planes in Structural Analysis. A. Stereonets. 1. Stereographic projection of lines and planes onto a circular grid or net a. Essentially taking a 3-D sphere and projecting it to a 2-D piece of paper (analogous to projecting the globe on world maps) b. Schmidt

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I. Graphical Representation of Lines and Planes in Structural Analysis. A. Stereonets. 1. Stereographic projection of lines and planes onto a circular grid or net a. Essentially taking a 3-D sphere and projecting it to a 2-D piece of paper (analogous to projecting the globe on world maps) b. Schmidt Net or Equal Area Net. (1) Areas on the 3-D sphere are preserved as true on the 2-D projection of the net.

Structural Geology Lab 5: Introduction to Stereonets

Introduction to stereonet 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

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Stereonet is 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.

Stereonet | Task Fronterra

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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 stereonet - YouTube

Equal-area stereonet is 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 stereonet 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 ...

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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.

STRUCTURAL GEOLOGY LABORATORY MANUAL

The stereonet is an old, traditional tool for dipmeter analysis that has become unconventional by the passage of time. Developed before the days of calculators and computers, it allowed computation of many complex tasks that were tedious to perform by hand.

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