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### 3d principal stress calculator free printable pdf

It was written to help structural geology professors and students quickly and accurately construct Mohr diagrams so that will have to spend less time plotting and more time exploring the results. To save the view, make sure that the Tensor Window is the frontmost window, then choose File>Save SVG. 6 file (which Stereonet v. 2.0.0 — 2014.12.05Draws the concentric circle arcs for normal and shear stresses on planes not parallel to principal axesLines defining reactivation angles can be plotted from new menu choice in the Plot Menu (thanks to Paul K. for the suggestion)Stereonet view in the Enter as Tensor Window! Once you calculate the principal axes of the tensor the physical locations of the axes of the tensor will be shown in the Stereonet view. This will provide additional information on the stress on the selected plane. The text file has the format of a Stereonet v. MohrPlotter is intended for teaching use only and is not to be used in any application, commercial or otherwise where property or life are at stake. The stereonet view is displayed by toggling the small disclosure triangle in the upper right corner of the Enter as Tensor Window.Enter as Tensor window now allows you to enter principal stresses with orientations in trend and plunge and the program will compute the appropriate tensor in either NED or ENU coordinate systemsYou can enter up to three planes in geographic coordinates and see them plotted in both the stereonet view and in the Mohrs CircleThe points representing normal and shear stress on the three planes are now numbered according to their number in the Poles to Planes pane and you can choose to highlight the point whose plane is selected via the popup menu in Poles to Planes pane.Updated users manualFixed a problem labeling axes when large stresses (e.g., 1000) were enteredFixes a problem where you couldn't change the thickness of the axes.v. 1.0.0 — 2014.05.28Initial public release of the program. You can specify whether the tensor is defined for an North-East-Down (NED) structural or an East-North-Up (ENU) geographic coordinate system. This open vector graphics format can be viewed in web browsers and opened by most modern graphics programs. It is also still in the Inspector for those of you who are used to finding it there but it will, eventually, be removed from the Inspector.If you hold down the Shift Key, the up/down arrows on the pore fluid pressure text box in the Mohr Circle Window will increment by 0.1; without the shift key the increment is 0.5.v. 2.8.1 — 2015.09.29Fixed a bug when trying to enter cohesion on a Windows system (thanks, Evan!)Eliminated annoying flashing in the Stereonet view on Windows systems.If you have entered a 2D stress field in the Mohr Circle view (i.e., no value specified for  $\sigma_2$ ) and then choose Tensor view, the program will arbitrarily assign a value for  $\sigma_2$  half way between  $\sigma_1$  and  $\sigma_3$ .v. 2.6.1 — 2015.02.21Shear stress on a plane is now plotted in the stereonet viewBug fixesv. Just toggle the new checkbox in the Envelopes & Points tab of the Inspector Palette.Set the font size for the numbers and title labels on the axes of the Mohr Circle plot in the Inspector Palette.Mac OS version is now delivered as a Apple package installer. 2.8.0 — 2015.07.01A new Plot>Stereonet> submenu allows you to control what is plotted in the stereonet plot of the Tensor Window. These options are only available when the Tensor Window is active and in front.Some menu choices have been renamed more informativelyUsers manual has been updatedCorrected a bug where a newly read in data file would forget the traction and shear vector orientations.v. 2.7.5 — 2015.06.03Added a calculation where if you know the normal and shear stresses on two planes that are parallel to  $\sigma_2$ , the magnitudes of the  $\sigma_1$  and  $\sigma_3$  can be determined.Added a "Tensor Window" command to the Window menuv. Likewise, the program can do simple calculations such as how much pore pressure will produce a fracture (i.e., hydraulic fracturing) or what are the range of orientation of planes that will be reactivated under a particular loading condition. 2.8.3 — 2015.12.16Fixed a bug where a plane orientation was lost when first opening the Tensor Window.Changed field tab order in the Mohr circle windowDefault setting for entry of static friction value is now the coefficient of static friction rather than the angle of static frictionv. The author will not be held responsible for incorrect results or inappropriate use of the program, or damages arising therefrom.Download a sample stress model and planesVersion Historyv. Blues and greens have low slip and oranges and red high slip probability. 275-278) by checking the new slip tendency checkbox in the Inspector palette. 2.8.2 — 2015.11.23Moved slip tendency command to the Plot Menu where it is much easier to find. A high quality/resolution pdf object will be place on the clipboard for pating into any graphics, word processing, or presentation application that can accept pdf data on the clipboard.Print: you can now print the graphic in the frontmost window by selecting File>PrintPlot full Griffith failure envelope instead of the Coulomb failure envelope. If the Mohr Circle window is in front, then File>Save SVG will save the Mohr Circle graphic.Improvements and fixes to the calculation and display of slip tendency (which you turn on via the Inspector palette)v. You can also use this text file to extract values from the analysis for further study such as...Not only the magnitude but also the orientations of traction, normal, and shear stress on each plane is saved to the disk file.Option to use either the tensor or the traditional Mohr Circle convention for shear stress sign (which are opposite to each other) simply by ticking a checkbox in the InspectorWhen you change the stress configuration, you can specify via the Inspector whether you preserve geographic coordinates of the planes when you transform the stress (which will change the magnitude and orientation of stress on each plane) or whether the planes transform with the stress so that the angles that the planes make with the principal axes remain the same but the geographic orientations of the planes change.The stereonet view now displays the orientation as you move the cursor inside the net. The file must have a one line header of your choosing (it is ignored on input), followed by one plane datum per line, right-hand rule with strike and dip values separated by a tab.Save a complete model to disk as a text file so you can read it back in at any time without having to retype any values. 24, p. 9 can read and write as well. The user can enter principal stresses or the complete stress tensor and the program will calculate and plot the results. 3.0.0 — 2019.10.17 (now save or copy as PDF!)Save as PDF file: pdfs are scale to page size. You can always turn them back on again in the Plot menu if you want.Program now behaves better if you just change the magnitude but not the orientation of principal stress and then press recalculate.v. 2.7.0 — 2015.03.01The stereonet view in the Tensor window can now be saved as a high quality vector graphic in the .svg format. 2.9.0 — 2019.02.27Now available in 64-bit version for all platforms (the Mac version is 64-bit only because all Mac OS X systems are 64-bit)High density display (AKA "Retina") and Mojave dark mode awareSetup installer for the Windows versions puts all the pieces in the right placeSlight updates to the manualUpdated copyright datev. It has been hardened and notarized by Apple as required by the new Catalina operating system.The Users Manual is now part of the Resource folder of the application so should always be available to the usersv. 2.7.1 — 2015.03.05The Tensor Window can now be resized allowing you to display, and save as .svg, larger stereonet views.plotting of construction lines is automatically turned off if you read in a data set with more than two planes. 2.6.0 — 2015.01.21You can color the planes, in both the Mohr diagram and stereonet views, by slip tendency (Morris et al., Geology, v. The plots produced can be saved as high quality vector graphics in the .svg format. Clicking and dragging the mouse inside the net allows you to measure angles (which is great for teaching to understand the relationship between angles is stress space and in geographic space).All planes are listed in the Plot menu and can be turned on and off individuallyLots of bugs fixed regarding sign of the shear stress and in general plotting in the lower half of the circle (i.e., where shear stress is negative).Probably a whole new slew of bugs introducedv. The user assumes all risks related to the use of this software. MohrPlotter is a simple program to plot Mohr Circles for stress and do simple calculations related to them. You can copy and paste from this window.The stress coordinate system is now fixed so that it is always a right-handed coordinate system. If you see a stress axis in the stereonet view which is plotted with a hollow symbol, that means that you are seeing the negative direction plotted in the lower hemisphere (i.e., the positive direction of the stress axis is in the upper hemisphere).Additional minor stability improvements.v. 2.5.0 — 2015.01.16You can now enter an unlimited number of planes in either geographic or stress coordinates; you are no longer limited to just three planesImport planes from a text file. As before the graphic saved is determined by whether the Mohr Circle or the Tensor Window is in front.Copy as PDF: Click on the graphic that you want to copy to the clipboard (a focus ring will appear around the canvas) and just choose Edit>Copy. This colors the actual measured planes not the total region of low slip probability.Clicking on a dot that represents the normal and shear stress on a plane in the Mohr plot window selects the plane in the Tensor window.You can now select multiple planes at once, either in the planes orientations listbox (hold down the shift or command key for contiguous or non-contiguous selection), or in the Mohr plot view (hold down the shift key).more bug fixes and some debugging code removed.v. 2.5.1 — 2015.01.19Added a Window>Planes Detail menu option that is enabled when the tensor window is in front.

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