

Inputs

stress tensor

sigma1, sigma2, sigma3; all in MPa

trend and plunge of sigma1; trend of sigma3; all in degrees

(pore fluid pressure required for opening angle, in MPa)

poles to specific fractures

ASCII text file, tab-delimited, with one pole per line as 'plunge<tab>plunge direction'; all in degrees

coefficient of friction

(only for fracture susceptibility calculation)

Outputs

equal area stereograms of normalised slip tendency (Ts), dilatation tendency (Td), fracture susceptibility (Sf) and opening angle (degrees) for all directions; plotted as MATLAB figures, and saved as 600 dpi TIFF, in the pattern 'FracTend_*.tif'

ASCII tab-delimited text file of poles to input fractures, with specific values of Ts, Td, Sf and OA, one set of values per line; saved as 'PolesWithValues.txt'

Operation

copy all the files to a folder

start MATLAB

set the working folder to the folder with the code files in

place any input data files in the same folder

at the MATLAB prompt, type 'FracTend' and hit Enter

report any/all bugs to d.healy@abdn.ac.uk