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 (and optional Mohr diagrams) 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 'guiFracTend' and hit Enter

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