

List of code's functions and files

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\\1/ User interface functions

FSDT_Database_Maker.fig - the description of the Database Maker interface.

FSDT_Database_Maker.m - the control code of the Database Maker interface.

FSDT_Simulator.fig - the description of the Simulator interface.

FSDT_Simulator.m - the control code of the Simulator interface.

Histogram_Overview.m - the description and the control code of the Histogram Overview window.

Main_Result.m - the description and the control code of the Main Result window.

Parameter_Window.m - the description and the control code of the Resulting Parameter window.

Probability_Density_Plot.m - the description and the control code of the Probability Density Plot window.

Scarp_Visual_Check.m - the description and the control code of the Visual Check window of the scarp cross-section.

Topo_Visual_Check.m - the description and the control code of the Visual Check window of the topographic shielding.

\\2/ Calculation functions

angdist.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB function reference, Version 2: November 2007.

http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/

antatm.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB function reference, Version 2: November 2007.

http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/

BalcoScaling.m - the compilation of functions make_al_be_consts_v22.m and get_al_be_age.m. See CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB function reference, Version 2: November 2007.

http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/

cleanXlsSheets.m - cleans a XLS-file content.

<http://www.mathworks.com/matlabcentral/answers/642-how-do-i-clear-the-contents-of-excel-by-sheet>

cont_mode.m - finds the modal value of a continuously distributed variable

d2r.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB function reference, Version 2: November 2007.

http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/

DBmaker.m - creates database MAT-file for reconstruction of fault scarp exposure history.

desilets2006sp.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB function reference, Version 2: November 2007.

http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/

dunai2001sp.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB function reference, Version 2: November 2007.

http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/

fit1decay.m - approximates data with one exponential decay function.
 fun2decay.m - returns value of sum of two exponential decay function
 fun3decay.m - returns value of sum of three exponential decay function
 get_rand.m - generates random value
 lifton2006sp.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator,
 MATLAB function reference, Version 2: November 2007.
http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/
 MonteCarloScarp.m - generates random rupture histories and collects
 histories with chi-squared below threshold
 NCEPatm_2.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB
 function reference, Version 2: November 2007.
http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/
 PointShield_mu.m - calculates scaled flux of fast muons at a point of
 footwall
 PointShield_sp.m - calculates shielding factor for high-energy neutrons at
 a point of footwall
 PointShield_sp_coll.m - calculates shielding factor for high-energy
 neutrons at a point of colluvium surface
 PointShield_sp_th.m - calculates apparent attenuation length in a footwall
 below colluvium
 r2d.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB
 function reference, Version 2: November 2007.
http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/
 round_from_zero.m - rounds a number from zero
 ScarpSimulator.m - calculates accumulated ^{36}Cl distribution according to a
 rupture history
 sec2hhmmss.m - converts time in seconds into HH.MM.SS format
 stone2000.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB
 function reference, Version 2: November 2007.
http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/
 stone2000Rcsp.m - see CRONUS-Earth Al-26/Be-10 exposure age calculator,
 MATLAB function reference, Version 2: November 2007.
http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/
 ThermEpithermNeutronCoef.m - calculates attenuation lengths and
 coefficients for thermal and epithermal neutrons
 TpToTopo.m - converts topographic shielding represented as bars or broken-
 line into a matrix of digitalised sky hemisphere

\3/ Help and data files

Database_Maker_Help.txt - help file of Database Maker
 NCEP2.mat - see CRONUS-Earth Al-26/Be-10 exposure age calculator, MATLAB
 function reference, Version 2: November 2007.
http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/
 nucl_data.mat - data file that contains nuclear physical constants
 PMag_Mar07.mat - see CRONUS-Earth Al-26/Be-10 exposure age calculator,
 MATLAB function reference, Version 2: November 2007.
http://hess.ess.washington.edu/math/docs/al_be_v2/al_be_fctn_desc/
 Simulator_Help.txt - help file of Simulator