

DoAll.R

Lampe

Thu Aug 14 12:01:00 2014

```
#Calls all the routines necessary for fitting shear parameters
```

```
##### set working directory and load libraries #####
```

```
#store current directory
```

```
Initial.dir <- getwd()
```

```
#change to new directory
```

```
CurrentDirectory <- "~/R/WorkingDirectory/MatFit_v1-2"
```

```
setwd(CurrentDirectory)
```

```
# load necessary libraries
```

```
library("minpack.lm")
```

```
library("ggplot2")
```

```
library("plyr")
```

```
library("data.table")
```

```
library("pracma")
```

```
## Warning: package 'pracma' was built under R version 3.1.1
```

```
source("Load.R")
```

```
## chr [1:18] "/Users/Lampe/GrantNo456417/MatParameterFitting/CompiledTestData/C-S_Database/CSV_M_SC/1"
```

```
## NULL
```

```
source("DefPara.R")
```

```
## [1] "CHECK TEST IMPORT #:" "18"
```

```
##      ITEST ICASE TIME [DAY] S.A.MIN S.A.MAX S.A.AVG S.L.MIN S.L.MAX
## 1  120C891      2    33.751  -3.796  -3.579  -3.702  -3.293  -3.2041
## 2    DCCS1      2     6.196  -6.524  -4.091  -4.961  -1.025  -0.9747
## 3    DCCS10     2    46.949  -9.115  -8.820  -9.008  -5.007  -4.9252
## 4    DCCS15     2     5.924  -5.232  -4.968  -5.010  -1.020  -0.9876
## 5    DCCS3      2    37.096  -6.009  -5.866  -5.980  -2.006  -1.9748
## 6    DCCS4      2    57.022  -7.103  -6.958  -6.993  -3.132  -2.9883
## 7    DCCS5      2    58.831  -8.026  -7.780  -7.989  -4.011  -3.9568
## 8     SC10      2    32.146  -6.199  -5.727  -5.995  -1.038  -0.9610
## 9     SC11      2    16.966  -6.044  -5.543  -5.994  -1.038  -0.9680
## 10    SC1B      2    62.896  -4.187  -3.911  -4.132  -3.473  -3.4140
## 11    SC2A      2    61.923  -4.880  -4.777  -4.827  -3.520  -3.4360
## 12    SC3A      2    61.733  -5.766  -5.467  -5.516  -3.565  -3.4320
## 13    SC4A      2    60.848  -7.699  -7.525  -7.588  -6.928  -6.7470
## 14    SC5A      2    61.339  -9.078  -8.651  -8.970  -6.938  -6.8880
## 15    SC6A      2    67.914 -10.397  -9.534 -10.329  -6.971  -6.8860
## 16    SC7A      2    65.968  -6.645  -6.447  -6.536  -5.203  -5.1440
## 17    SC8A      2    60.767  -9.449  -7.590  -7.952  -5.188  -5.1480
## 18    SC9B      2    60.937  -9.384  -8.139  -9.311  -5.203  -5.1370
```

##	S.L.AVG	S.D.AVG	E.V.MIN	E.V.MAX	E.A.MIN	E.A.MAX	T.AVG	FD.MIN	FD.MAX
## 1	-3.256	0.4457	-0.174330	0	-0.08441	0	293.0	0.7018	0.8354
## 2	-1.014	3.9473	-0.017568	0	-0.15550	0	297.5	0.9258	0.9422
## 3	-4.999	4.0097	-0.068824	0	-0.09518	0	294.7	0.9170	0.9823
## 4	-1.008	4.0019	-0.033969	0	-0.15064	0	297.9	0.9073	0.9387
## 5	-2.000	3.9803	-0.060718	0	-0.14177	0	297.1	0.9092	0.9661
## 6	-3.003	3.9901	-0.061275	0	-0.13528	0	296.7	0.9312	0.9900
## 7	-4.000	3.9895	-0.069213	0	-0.14917	0	294.8	0.9043	0.9691
## 8	-1.003	4.9916	-0.006195	0	-0.01482	0	298.0	0.8373	0.8425
## 9	-1.025	4.9693	-0.021617	0	-0.04677	0	298.0	0.7813	0.7983
## 10	-3.439	0.6925	-0.243860	0	-0.09874	0	298.0	0.7286	0.9298
## 11	-3.459	1.3683	-0.225030	0	-0.11139	0	298.0	0.7445	0.9324
## 12	-3.454	2.0623	-0.241510	0	-0.13777	0	298.0	0.7291	0.9283
## 13	-6.894	0.6944	-0.222610	0	-0.09474	0	298.0	0.7439	0.9294
## 14	-6.916	2.0549	-0.190630	0	-0.09817	0	298.0	0.8167	0.9883
## 15	-6.912	3.4164	-0.188180	0	-0.12228	0	298.0	0.7874	0.9504
## 16	-5.173	1.3636	-0.227880	0	-0.10278	0	298.0	0.7706	0.9678
## 17	-5.167	2.7848	-0.216170	0	-0.13914	0	298.0	0.7461	0.9261
## 18	-5.165	4.1463	-0.212080	0	-0.16152	0	298.0	0.7791	0.9631

##	W.AVG	ER.V.MIN	ER.V.MAX	ER.A.MIN	ER.A.MAX
## 1	2.40	-1.064e-06	0.000e+00	-5.177e-07	0.000e+00
## 2	1.66	-1.208e-06	4.225e-09	-1.131e-05	0.000e+00
## 3	1.49	-4.494e-06	7.194e-09	-4.622e-06	7.000e-06
## 4	1.77	-7.282e-06	1.038e-09	-1.510e-05	0.000e+00
## 5	1.63	-2.617e-06	0.000e+00	-3.613e-06	0.000e+00
## 6	1.59	-1.827e-06	5.523e-08	-2.597e-06	0.000e+00
## 7	1.55	-2.395e-06	3.822e-09	-2.329e-06	0.000e+00
## 8	0.00	-1.986e-08	0.000e+00	-6.720e-08	0.000e+00
## 9	0.00	-4.492e-06	0.000e+00	-1.512e-05	0.000e+00
## 10	2.34	-1.487e-05	0.000e+00	-7.015e-06	0.000e+00
## 11	2.25	-1.119e-05	0.000e+00	-6.524e-06	0.000e+00
## 12	2.21	-1.406e-05	0.000e+00	-9.305e-06	0.000e+00
## 13	2.27	-2.178e-05	2.778e-09	-1.050e-05	1.389e-09
## 14	2.52	-1.354e-05	0.000e+00	-7.716e-06	0.000e+00
## 15	2.19	-1.220e-05	0.000e+00	-1.060e-05	0.000e+00
## 16	2.33	-1.509e-05	2.556e-08	-8.127e-06	0.000e+00
## 17	2.29	-1.355e-05	6.805e-09	-9.277e-06	0.000e+00
## 18	2.33	-1.649e-05	5.556e-09	-1.308e-05	0.000e+00

```

#source("Plot_Input.R")
#source("ShearFit.R")
#source("ValidateSC.R")
#source("Plot_Output.R")

# clear workspace
#rm(list = ls())

```