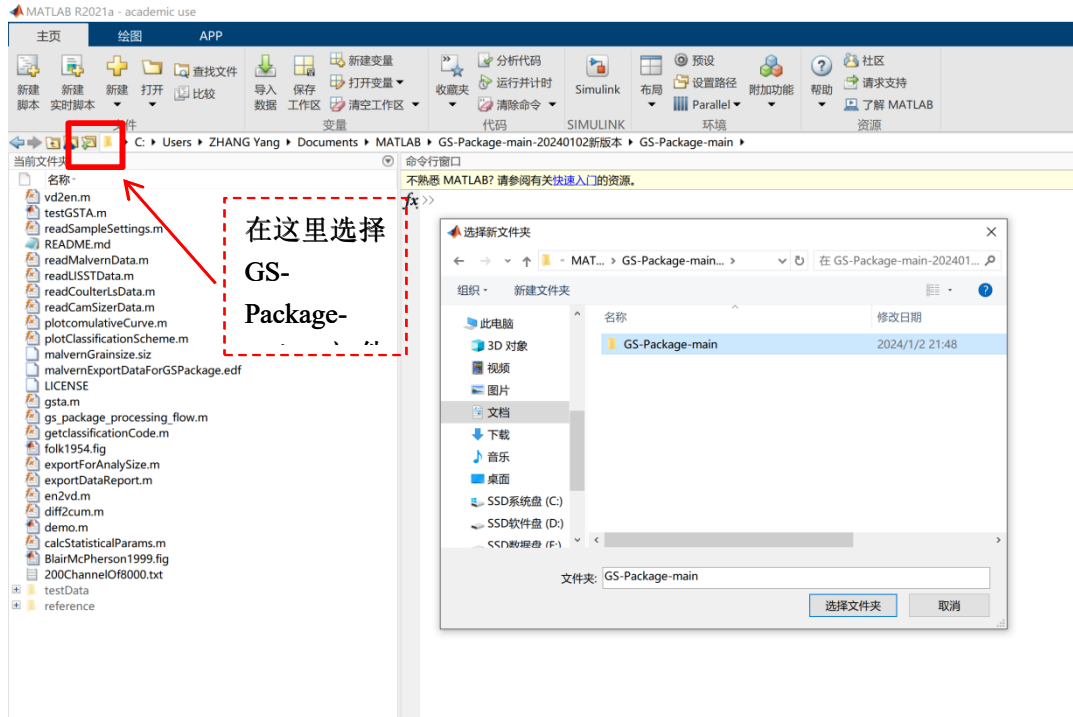


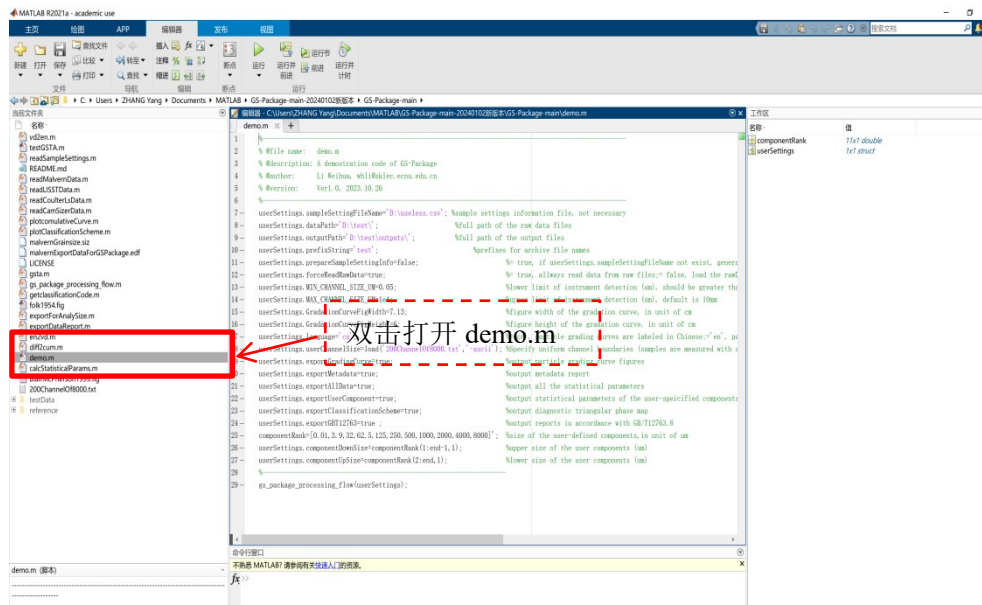
# GS-Package 使用流程

By 张阳

第一步:



第二步:



### 第三步：

IATLAB ▶ GS-Package-main-20240102新版本 ▶ GS-Package-main ▶

编辑器 - C:\Users\ZHANG Yang\Documents\MATLAB\GS-Package-main-20240102新版本\GS-Package-main\demo.m

```

1 %
2 % @file name: demo.m
3 % @description: A demonstration code of GS-Package
4 % @author: Li Weihua, whli@sklec.ecnu.edu.cn
5 % @version: Ver1.0, 2023.10.26
6 %
7 userSettings.sampleSettingFileName='D:\useless.csv'; %sample settings information file, not necessary
8 userSettings.dataPath='D:\test\'; %full path of the raw data files
9 userSettings.outputPath='D:\test\outputs\'; %full path of the output files
10 userSettings.prefixString='test'; %prefixes for archive file names
11 userSettings.prepareSampleSettingInfo=false; %if true, if userSettings.sampleSettingFileName not exist, generate
12 userSettings.forceReadRawData=true; %if true, force to load the raw data files
13 userSettings.MIN_CHANNEL_SIZE_UM=0.05; %lower limit of instrument detection (um), should be greater than 0
14 userSettings.MAX_CHANNEL_SIZE_UM=1e4; %figure width of the gradation curve, in unit of cm
15 userSettings.GradationCurveFigWidth=7.13; %figure height of the gradation curve, in unit of cm
16 userSettings.GradationCurveFigHeight=6; %'cn', particle grading curves are labeled in Chinese;='en', particle
17 userSettings.language='cn'; %Specify uniform channel boundaries. (samples are measured with a
18 userSettings.userChannelSize=load('200Channelof8000.txt','-ascii'); %Specify uniform channel boundaries. (samples are measured with a
19 userSettings.exportGradingCurve=true; %output particle grading curve figures
20 userSettings.exportMetadata=true; %output metadata report
21 userSettings.exportAllData=true; %output all the statistical parameters
22 userSettings.exportUserComponent=true; %output statistical parameters of the user-specified components
23 userSettings.exportClassificationScheme=true; %output diagnostic triangular phase map
24 userSettings.exportGBT12763=true; %output reports to be labeled GB/T12763.8
25 componentRank=[0.01, 3, 9, 32, 62, 5, 125, 250, 500, 1000, 2000, 4000, 8000]; %size of the user components (um)
26 userSettings.componentDownSize=componentRank(1:end-1,1); %upper size of the user components (um)
27 userSettings.componentUpSize=componentRank(2:end,1); %lower size of the user components (um)
28 %
29 gs_package_processing_flow(userSettings);
  
```

更改这三处：  
 'D:\test\' 更改为数据原始文件夹  
 'D:\test\outputs\' 更改为数据输出文件夹  
 'test' 更改为输出文件的前缀  
 详见对应绿色英文解释

可手动修改分粒级  
 详见对应绿色英文解释

### 第四步：

文件 变量 代码 SIMULINK 环境 资源

▶ C:\Users\ZHANG Yang\Documents\MATLAB\GS-Package-main-20240102新版本\GS-Package-main ▶

编辑器 - C:\Users\ZHANG Yang\Documents\MATLAB\GS-Package-main-20240102新版本\GS-Package-main\demo.m

demo.m

```

1 %
2 % @file name: demo.m
3 % @description: A demonstration code of GS-Package
4 % @author: Li Weihua, whli@sklec.ecnu.edu.cn
5 % @version: Ver1.0, 2023.10.26
6 %
7 userSettings.sampleSettingFileName='D:\useless.csv'; %sample settings information file, not necessary
8 userSettings.dataPath='C:\Users\ZHANG Yang\Desktop\00\'; %full path of the raw data files
9 userSettings.outputPath='C:\Users\ZHANG Yang\Desktop\00\111\'; %full path of the output files
10 userSettings.prefixString='ZY'; %prefixes for archive file names
11 userSettings.prepareSampleSettingInfo=false; %if true, if userSettings.sampleSettingFileName not exist, generate
12 userSettings.forceReadRawData=true; %if true, force to load the raw data files
13 userSettings.MIN_CHANNEL_SIZE_UM=0.05; %lower limit of instrument detection (um), should be greater than 0
14 userSettings.MAX_CHANNEL_SIZE_UM=1e4; %figure width of the gradation curve, in unit of cm
15 userSettings.GradationCurveFigWidth=7.13; %figure height of the gradation curve, in unit of cm
16 userSettings.GradationCurveFigHeight=6; %'cn', particle grading curves are labeled in Chinese;='en', particle
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23 userSettings.exportClassificationScheme=true; %output diagnostic triangular phase map
24 userSettings.exportGBT12763=true; %output reports to be labeled GB/T12763.8
25 componentRank=[0.01, 3, 9, 32, 62, 5, 125, 250, 500, 1000, 2000, 4000, 8000]; %size of the user components (um)
26 userSettings.componentDownSize=componentRank(1:end-1,1); %upper size of the user components (um)
27 userSettings.componentUpSize=componentRank(2:end,1); %lower size of the user components (um)
28 %
29 gs_package_processing_flow(userSettings);
  
```

输入 demo.m 命令，  
回车运行即可

命令行窗口

```

>> demo
  
```

警告对话框

Warning: This is the first time the raw data has been processed and the sample setting information file has not been edited.

确定

Figure 999

ID=DSZY-5-7  
 D50=385um  
 SPHT50=0.838

微分频率(%)

累积频率(%)

粒径(um)