

# AVEVA™



## CAESARII接口

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## 基本概念



### ▼ **STRESS-C**

PDMS to CAESARII interface  
基于PDMS DARs Mk11.3SP1

### ▼ **STRESS-C** version 2.4.1

对应CAESARII version 4.20

### ▼ 输出内容

Positions, Pipe Diameters, Pipe Thickness, etc.

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## 数据准备



### ▼ 材料特性和元件特性

在Properties database 中定义

- Young's modulus
- Poisson's Ratio
- Expansion Coefficient
- Pipe Density.

### ▼ Branch设置材料特性参考

MATR (Material Reference)

FLUR(Fluid Reference) 指向Fluid Density

### ▼ 缺省值

low carbon steel  
material code 1

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## 管道准备



- ▼ 只输出DN50以上的管道
- ▼ 管道元件必须有ISODRAFT Symbol Keys
- ▼ 模型的连接参考正确

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## STRESS-C V2.4.1安装



- ▼ 运行安装程序
- ▼ 警告框提示安装后需要修改批处理文件,确定



- ▼ 修改文件..\AVEVA\StressC241\Run\_Stressc.bat  
SET PDMS\_DIR=d:\aveva\Pdms11.5  
SET STRESSC\_DIR=d:\aveva\StressC241

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# 运行StressC241



## ▼ 运行批处理程序，按照提示输入各项

Enter Project Name(输入项目名称): **SAM**

Enter Username/Password(用户名/密码): **SAMPLE/SAMPLE**

Enter MDB Name(Mdb名称): **SAMPLE**

Enter Pipe name(管道名称): **/250-B-5**

<cr> to process(回车运行):

Enter CAESARII output file name(输出文件名): **250B5**

— 注意：输出文件名不能超过6个字符

\*\* Creating CAESARII output file 250B5.cii \*\*

\*\* Creating CAESARII output file 250B5.dat \*\*

\*\*WARNING\*\* Material reference not set. /250-B-5

\*\*WARNING\*\* Fluid reference not set. /250-B-5

Process another Pipe?Y/N(输入其他管道名称):**N**

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# 执行过程



## ▼ Dos提示行

```
C:\WINNT\System32\cmd.exe

Enter Project Name <<cr> to quit> .....: SAM

Enter Username/Password <<cr> to quit> : SAMPLE/SAMPLE

VANTAGE PDMS DARS C Interface Mk11.5.0. <WINDOWS-NT 5.0> <23 Apr 2003 : 10:10>
>

This version of PDMS was issued to AVEVA Asia Pacific Division
and will only operate on registered hardware

VANTAGE PDMS/C DARS Mk11.5.0. <WINDOWS-NT 5.0> <23 Apr 2003 : 10:10>
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Enter MDB Name <<cr> to quit> .....: SAMPLE

Current Units are MM Bore MM Dist

Enter Pipe name, or <cr> to process, or <q> to quit: /250-B-5

Enter Pipe name, or <cr> to process, or <q> to quit:

Enter CAESARII output file name. Must be <6> characters or less ...: 250B5
```

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## 输出文件



- ▼ 输出文件在..\aveva\StressC241\目录中
- ▼ \*.cii是CAESARII的数据交换文件
- ▼ \*.dat是工作文件

## 应用数据交换文件



- ▼ 进入Caesarii
  - Tools > External Interfaces > CAESAR II Neutral File
  - 转换类型是Convert Neutral File to CAESAR II Input File
  - Convert后, 在同一目录生成 \* .\_A文件
  - File>Open打开 \* .\_A文件

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