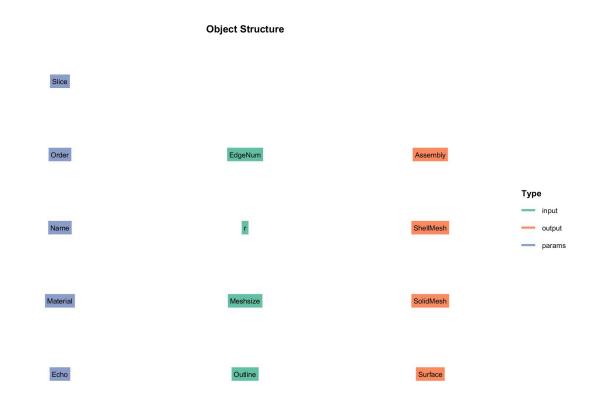
PolygonHousing

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1 介绍

PolygonHousing用于建立多边形轴套。

2 类结构



输入 input:

Meshsize:网格尺寸EdgeNum:边数量

• r: 倒角半径

• Outline:外轮廓Line2D

参数 params:

Order: 单元阶数Slice: 边网格数量

Name: 名称Material: 材料

输出 output:

• Assembly:实体单元装配

• ShellMesh: 売网格

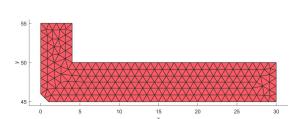
• SolidMesh: 实体网格

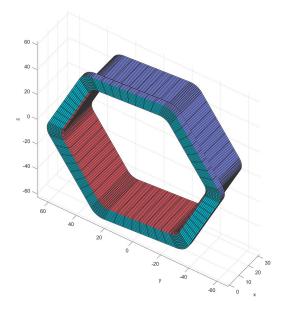
• Surface:截面

3 案例

3.1 Create PolygonHousing (Flag=1)

```
a=Point2D('Point Ass1');
1
 2
    a=AddPoint(a,[0;4],[110/2;110/2]);
 3
    a=AddPoint(a,[4;4],[110/2;100/2]);
    a=AddPoint(a,[4;30],[100/2;100/2]);
    a=AddPoint(a,[30;30],[100/2;90/2]);
    a=AddPoint(a,[30;1],[90/2;90/2]);
    a=AddPoint(a,[1;0],[90/2;92/2]);
8
    a=AddPoint(a,[0;0],[92/2;110/2]);
9
    b=Line2D('Line Ass1');
10
    for i=1:7
11
12
     b=AddCurve(b,a,i);
13
    end
14
15
    inputHousing.Outline= b;
16
    inputHousing.EdgeNum= 6;
17
    inputHousing.r= 10;
18
    inputHousing.Meshsize= 1;
19
20
    paramsHousing=struct();
21
    obj1=housing.PolygonHousing(paramsHousing, inputHousing);
22
    obj1=obj1.solve();
23
    Plot2D(obj1);
24
   Plot3D(obj1);
```





4 参考文献