

# 4.6



## 4.6.1



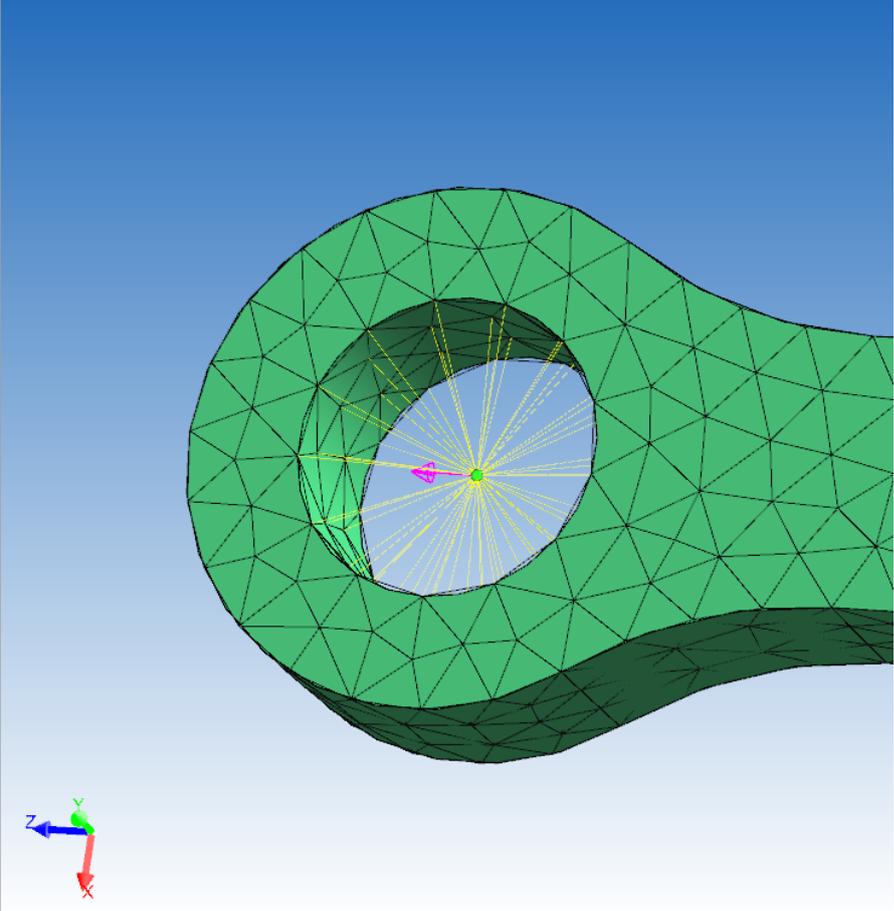
 载荷约束  
 结点约束-1  
 结点约束-2  
 计算任务

 属性

名称	结点约束-2
类型	结点约束
计算步	静力学步-2
结点集	参考点-4

自由度

X平动	<input type="checkbox"/>
Ux	0
Y平动	<input type="checkbox"/>
Uy	0
Z平动	<input checked="" type="checkbox"/>
Uz	15
X转动	<input type="checkbox"/>
Rx	0
Y转动	<input type="checkbox"/>
Ry	0
Z转动	<input type="checkbox"/>
Rz	0





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- $x \times \dots \times \dots$
- $U_x \times \dots \times \dots = 0$

- $y_{i1} y_{i2} y_{i3} y_{i4} y_{i5} y_{i6}$
- $Uy_{i1} y_{i2} y_{i3} y_{i4} y_{i5} y_{i6} 0$
- $z_{i1} z_{i2} z_{i3} z_{i4} z_{i5} z_{i6}$
- $Uz_{i1} z_{i2} z_{i3} z_{i4} z_{i5} z_{i6} 0$
- $x_{i1} x_{i2} x_{i3} x_{i4} x_{i5} x_{i6}$
- $Rx_{i1} x_{i2} x_{i3} x_{i4} x_{i5} x_{i6} 0$
- $y_{i1} y_{i2} y_{i3} y_{i4} y_{i5} y_{i6}$
- $Ry_{i1} y_{i2} y_{i3} y_{i4} y_{i5} y_{i6} 0$
- $z_{i1} z_{i2} z_{i3} z_{i4} z_{i5} z_{i6}$
- $Rz_{i1} z_{i2} z_{i3} z_{i4} z_{i5} z_{i6} 0$

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## 4.6.2 □□□□

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The screenshot shows a software interface with a tree view on the left and a detailed property table on the right. The tree view includes '结果' (Results), '插件' (Plugins), and '计算任务' (Calculation Task). Under '计算任务', there are sub-items '结点约束-2' (Node Constraint-2) and '结点荷载-3' (Node Load-3). The property table for '结点荷载-3' is as follows:

属性	
名称	结点荷载-3
类型	结点荷载
计算步	静力学步-2
结点集	参考点-3
荷载值	
Fx	0
Fy	0
Fz	0
Mx	0
My	0
Mz	0



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- $F_x$  [x
- $F_y$  [y
- $F_z$  [z
- $M_x$  [x
- $M_y$  [y
- $M_z$  [z



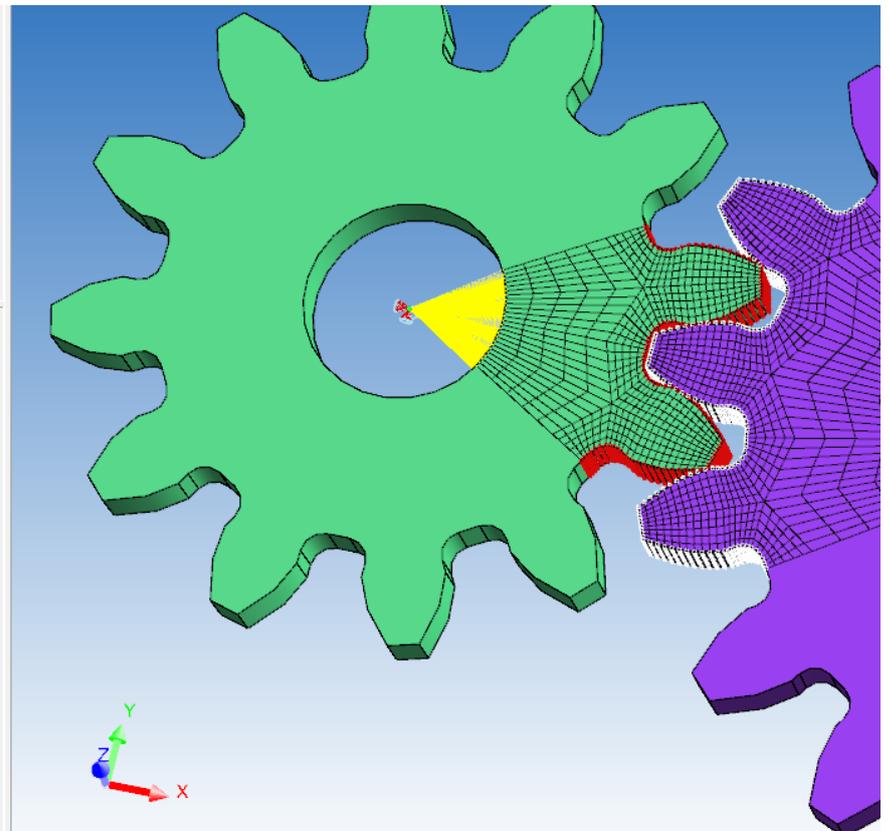
## 4.6.3



Tree view structure:

- 载荷约束
  - 结点约束-1
  - 结点约束-2
  - 接触对-3
- 计算任务
- 结果
- 插件
- 设置

属性	
名称	接触对-3
类型	接触对
设置	
接触类型	Penalty
压力斜率	1e+07
间隔参数	1
主结点集	齿轮-2-齿廓表面
从结点集	齿轮-1-齿廓表面
摩擦系数	0.2
滑动误差	0.005



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