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|  | |  | | --- | | **模拟对象为 rudder-stock-zhoucheng**  **日期: 2024年11月3日 设计师: Solidworks**  **算例名称: 静应力分析 4**  **分析类型: 静应力分析** | | 目录  [网格信息 2](#_Toc181564729)  [合力 3](#_Toc181564730)  [算例结果 4](#_Toc181564731) | |
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| 网格信息  |  |  | | --- | --- | | 网格类型 | 实体网格 | | 所用网格器: | 基于混合曲率的网格 | | 高质量网格的雅可比点 | 16 点 | | 最大单元大小 | 204.57 mm | | 最小单元大小 | 204.57 mm | | 网格品质 | 高 |  网格信息 - 细节  |  |  | | --- | --- | | 节点总数 | 15780 | | 单元总数 | 8463 | | 最大高宽比例 | 14.773 | | 单元 (%),其高宽比例 < 3 | 99.8 | | 单元百分比，其高宽比例 > 10 | 0.0118 | | 变形单元的百分比 | 0 | | 完成网格的时间(时;分;秒): | 00:00:05 | | 计算机名: | 杜佳逸的电脑哈 |  网格品质图解  | 名称 | 类型 | 最小 | 最大 | | --- | --- | --- | --- | | 品质1 | 网格 | - | - | | **rudder-stock-zhoucheng-静应力分析 4-品质-品质1** | | | | |

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| 合力反作用力  | 选择集 | 单位 | 总和 X | 总和 Y | 总和 Z | 合力 | | --- | --- | --- | --- | --- | --- | | 整个模型 | N | -2.81126e+06 | -218,037 | -1.2108e+06 | 3.06868e+06 |  反作用力矩  | 选择集 | 单位 | 总和 X | 总和 Y | 总和 Z | 合力 | | --- | --- | --- | --- | --- | --- | | 整个模型 | N.m | 0 | 0 | 0 | 0 | |
| 自由实体力  | 选择集 | 单位 | 总和 X | 总和 Y | 总和 Z | 合力 | | --- | --- | --- | --- | --- | --- | | 整个模型 | N | -390,321 | -78,858.1 | -134,812 | 420,408 |  自由几何体力矩  | 选择集 | 单位 | 总和 X | 总和 Y | 总和 Z | 合力 | | --- | --- | --- | --- | --- | --- | | 整个模型 | N.m | 0 | 0 | 0 | 1e-33 | |

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| 算例结果  | 名称 | 类型 | 最小 | 最大 | | --- | --- | --- | --- | | 应力1 | VON: von Mises 应力 | 5.106e-03N/m^2  节: 845 | 1.171e+08N/m^2  节: 8751 | | **rudder-stock-zhoucheng-静应力分析 4-应力-应力1** | | | |  | 名称 | 类型 | 最小 | 最大 | | --- | --- | --- | --- | | 位移1 | URES: 合位移 | 0.000e+00mm  节: 1 | 5.960e+11mm  节: 2481 | | **rudder-stock-zhoucheng-静应力分析 4-位移-位移1** | | | |  | 名称 | 类型 | 最小 | 最大 | | --- | --- | --- | --- | | 应变1 | ESTRN : 对等应变 | 3.690e-07  单元: 6139 | 3.811e-04  单元: 4325 | | **rudder-stock-zhoucheng-静应力分析 4-应变-应变1** | | | | |