TurbineModuleHEandIV.mph - COMSOL Multiphysics

File | Home | Definitions | Geometry | Materials | Physics | Mesh | Study | Results | Developer

Heat Transfer in Solids and Fluids | Add Physics | Add Multiphysics | Insert Physics | Domains | Boundaries | Pairs | Edges | Pairs | Points | Pairs | Global | Attributes | Load Group | Constraint Group | Harmonic Perturbation | Multiphysics Couplings | Shared Properties

Physics | Domain | Boundary | Edge | Point | Global | Contextual | Multiphysics

Model Builder

- TurbineModuleHEandIV.mph *(root)*
  - Global Definitions
    - Parameters 1
    - Default Model Inputs
    - Materials
  - Component 1 *(comp1)*
    - Definitions
    - Geometry 1
      - case *(imp1)*
      - Union 1 *(uni1)*
      - Outercase *(csol1)*
      - InternalVolume *(cap1)*
      - Form Union *(fin)*
    - Materials
      - Steel AISI 4340 *(mat1)*
      - Air *(mat2)*
    - Heat Transfer in Solids and Fluids *(ht)*
      - Solid 1
      - Fluid 1
      - Initial Values 1
      - Thermal Insulation 1
      - AmbienAirInlet
      - FlueGasInlet
    - Mesh 1
      - Size
      - Free Tetrahedral 1
        - Error 1 — Error
        - Error 2 — Error
        - Error 3 — Error
        - Error 4 — Error
        - Error 5 — Error
        - Error 6 — Error
        - Error 7 — Error
        - Error 8 — Error
        - Error 9 — Error
        - Error 10 — Error
        - Error 11 — Error
        - Warning 1

Settings

Mesh

Build All

Label: Mesh 1

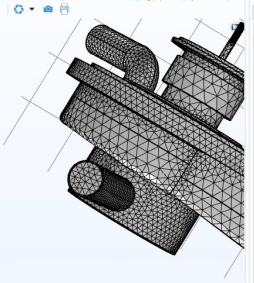
Sequence Type

User-controlled mesh

Build Settings

Build new operations automatically

Graphics



Add Material

Add to Global Materials | Add to Component

air | Search

- Recent Materials
  - Air
- Built-in
  - Air
- Liquids and Gases
  - Gases
    - Air

Error

A problem occurred when building mesh feature 'Free Tetrahedral 1'.

Failed to generate mesh for face.
- Face: 85

Intersecting edge elements.
- Edge: 218, 224, 337
- x-coordinate: -0.0355255
- y-coordinate: -0.0135
- z-coordinate: -0.00785459

OK

Messages | Progress | Log

[Jun 8, 2022, 11:41 AM] Mesh error (ftet1): Failed to generate mesh for face.
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[Jun 8, 2022, 11:41 AM] Mesh error (ftet1): Failed to generate mesh for face.
[Jun 8, 2022, 11:41 AM] Mesh warning (ftet1): The specified minimum element size (0.00502) is too large to resolve the geometry.
[Jun 8, 2022, 11:41 AM] Mesh warning (ftet1): Failure due to incomplete boundary mesh.

1.4 GB | 1.68 GB