High Resolution FE Model of Bone - Numerical Results

Author: Rajesh Bhaskaran, Cornell University

Numerical Results

The force reaction at the support is 72.558 N. This force acts only in the Y direction, since only the y-displacement is constrained at the support. The model is allowed to deflect in the X direction, hence one will not find a reacting force in that direction.

Details of "Force Reaction"	▼ ⊣ □ ✕
Definition	
Type	Force Reaction
Location Method	Boundary Condition
Boundary Condition	Frictionless Support
Orientation	Global Coordinate System
Suppressed	No
Options	
Result Selection	All
☐ Display Time	End Time
Results	
Maximum Value Over Time	
☐ X Axis	0. N
☐ Y Axis	72.558 N
☐ Z Axis	-0.10937 N
☐ Total	72.558 N
Minimum Value Over Time	
☐ X Axis	0. N
☐ Y Axis	72.558 N
☐ Z Axis	-0.10937 N
☐ Total	72.558 N
Information	

We can validate the simulation using the reaction force. Move on to verification and validation.

Go to Step 7: Verification & Validation

Go to all ANSYS Learning Modules