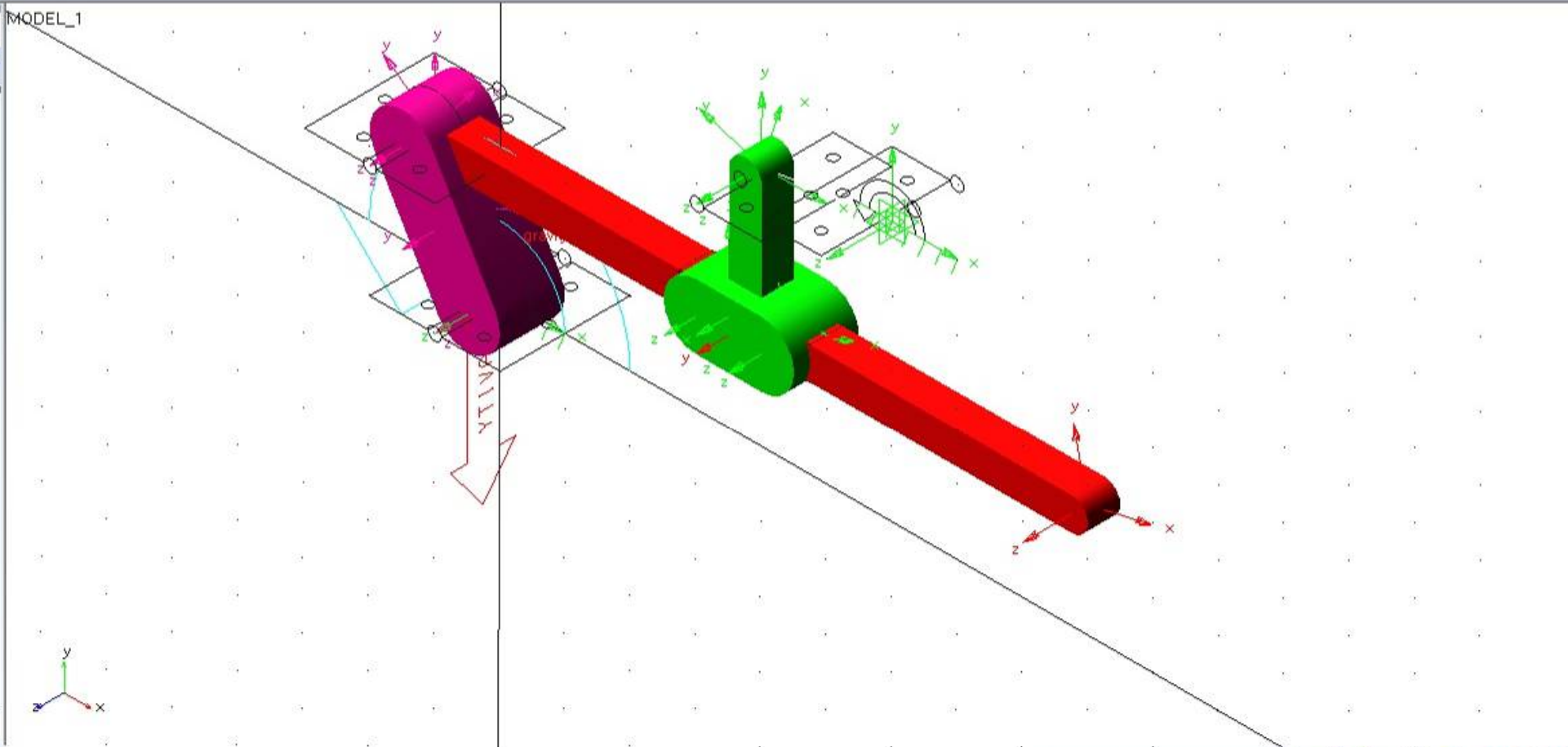


Setup Simulate

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



- MODEL_1
 - page_1
 - plot_1
 - analysis
 - date
 - title
 - curve_1
 - curve_2
 - curve_3
 - haxis
 - vaxis
 - legend_object
 - plot_2
 - analysis
 - date
 - title
 - curve_1
 - haxis
 - vaxis
 - legend_object

Name Filter *

Display
 Borderline
 Background

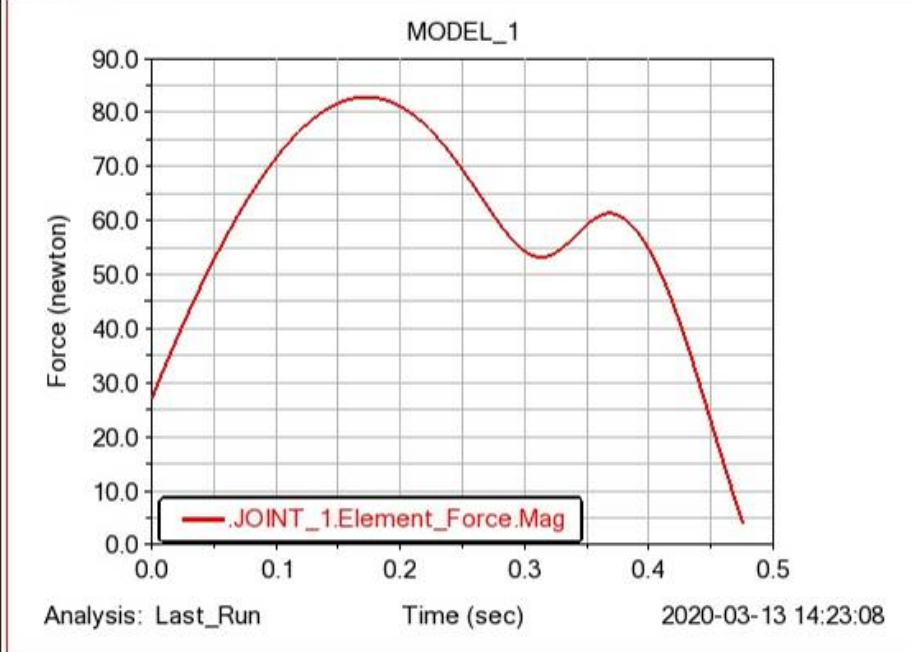
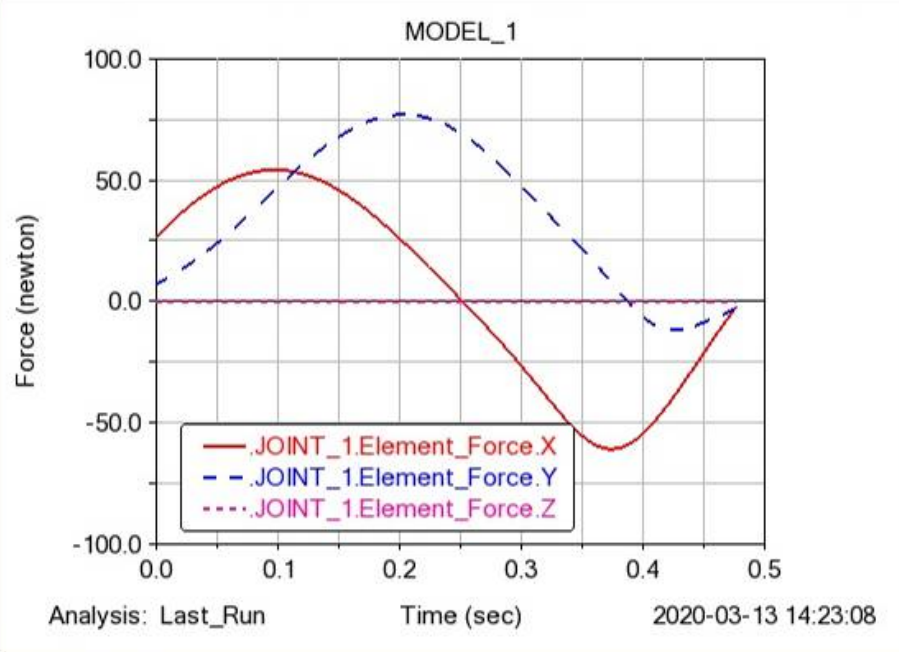
Placement: Top Left

Font Size: 9

Line Color: Black

Line Style: Solid Line

Line Weight: 1



Model	Filter	Object	Characteristic	Component	<input checked="" type="checkbox"/> Surf
.MODEL_1	body	+ JOINT_1	Element_Force	X	<input type="button" value="Add Curves"/>
	force	+ JOINT_2	Element_Torque	Y	<input type="button" value="Add Curves To Current Plot"/>
	constraint	+ JOINT_3	Translational_Displacement	Z	<input type="button" value="Clear Plot"/>
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	Independent Axis:
		+ MOTION_1	Translational_Velocity		<input checked="" type="radio"/> Time <input type="radio"/> Data
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

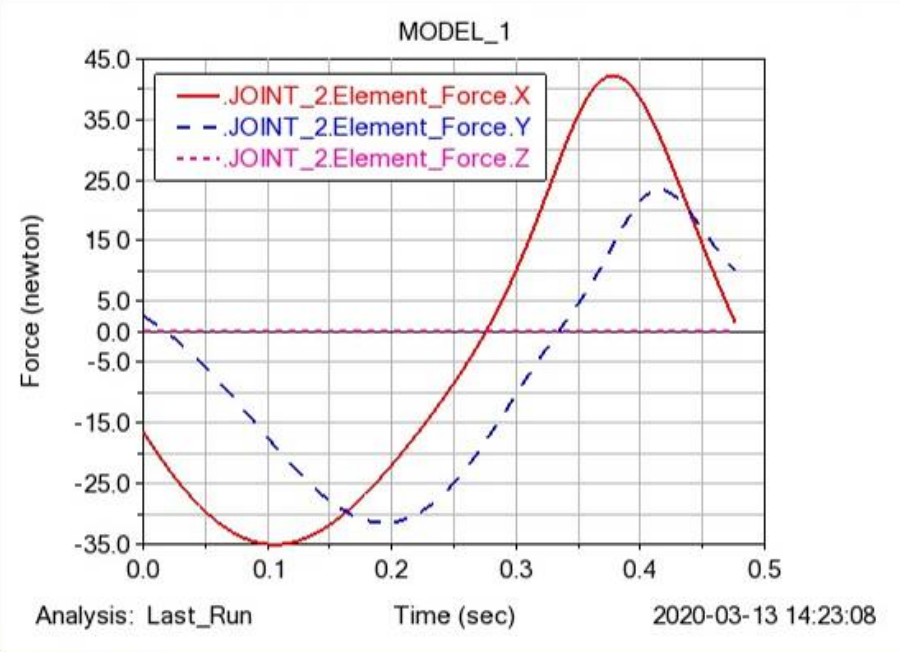
Source: Objects

Filter: *

Plotting

- plot_1
 - analysis
 - date
 - title
 - curve_1
 - curve_2
 - curve_3
 - haxis
 - vaxis
 - legend_object
- plot_2
 - analysis
 - date
 - title
 - curve_1
 - haxis
 - vaxis
 - legend_object

Name Filter *



Model	Filter	Object	Characteristic	Component	Surf
.MODEL_1	body	+ JOINT_1	Element_Force	X	<input checked="" type="checkbox"/>
	force	+ JOINT_2	Element_Torque	Y	
	constraint	+ JOINT_3	Translational_Displacement	Z	
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	
		+ MOTION_1	Translational_Velocity		
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

Source: Objects
Filter: *

Buttons: Add Curves, Add Curves To Current Plot, Clear Plot

Independent Axis: Time Data



plot_1

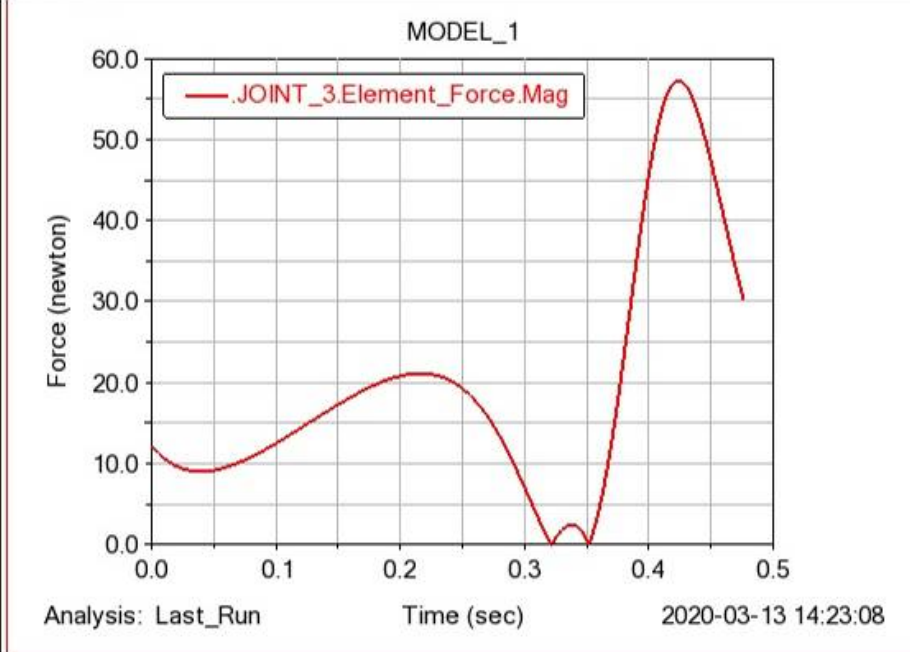
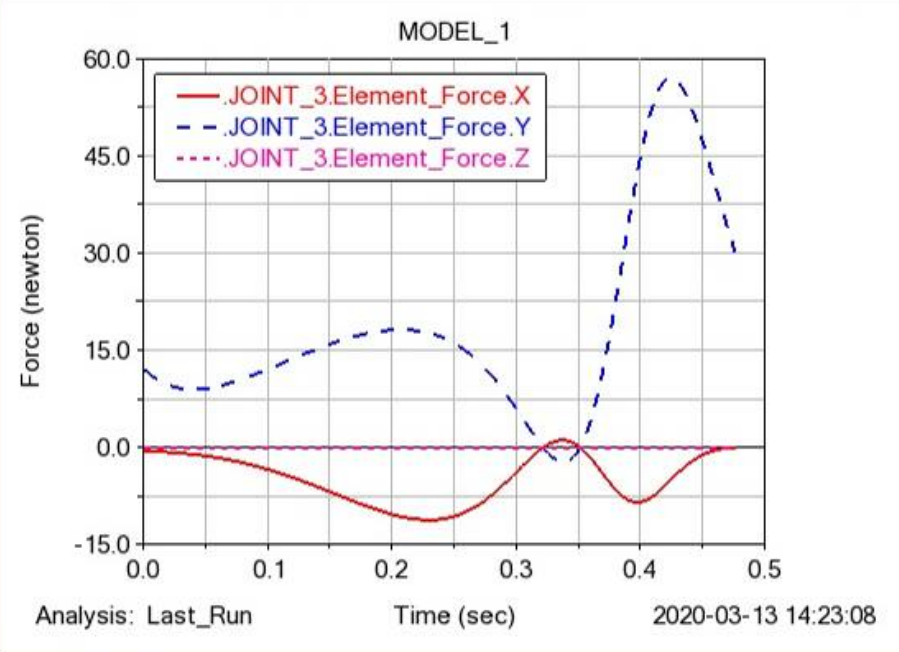
- analysis
- date
- title
- curve_1
- curve_2
- curve_3
- haxis
- vaxis
- legend_object

plot_2

- analysis
- date
- title
- curve_1
- haxis
- vaxis
- legend_object

page_2

Name Filter *



Data | Math

Model	Filter	Object	Characteristic	Component	Surf
.MODEL_1	body force constraint	+ JOINT_1 + JOINT_2 + JOINT_3 + JOINT_4 + MOTION_1	Element_Force Element_Torque Translational_Displacement Ax_Ay_Az_Projection_Angles Translational_Velocity Translational_Acceleration Angular_Velocity Angular_Acceleration	X Y Z Mag	<input checked="" type="checkbox"/> Surf

Source: Objects

Filter: *

Buttons: Add Curves, Add Curves To Current Plot, Clear Plot

Independent Axis: Time Data



plot_1

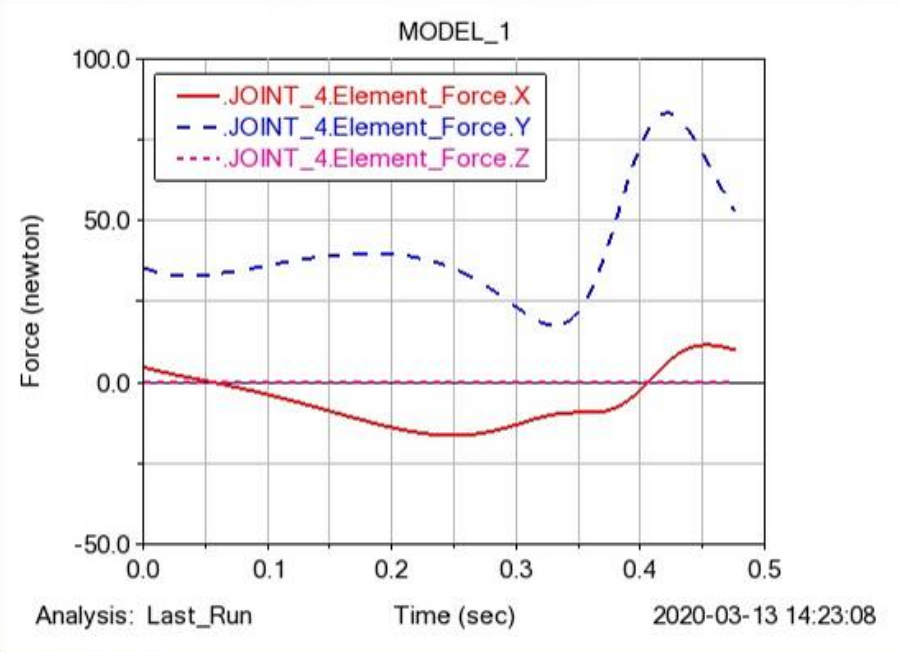
- analysis
- date
- title
- curve_1
- curve_2
- curve_3
- haxis
- vaxis
- legend_object

plot_2

- analysis
- date
- title
- curve_1
- haxis
- vaxis
- legend_object

page_2

Name Filter *



Data | Math

Model	Filter	Object	Characteristic	Component	Surf
.MODEL_1	body force constraint	+ JOINT_1 + JOINT_2 + JOINT_3 + JOINT_4 + MOTION_1	Element_Force Element_Torque Translational_Displacement Ax_Ay_Az_Projection_Angles Translational_Velocity Translational_Acceleration Angular_Velocity Angular_Acceleration	X Y Z Mag	<input type="checkbox"/>

Source: Objects

Filter: *

Buttons: Add Curves, Add Curves To Current Plot, Clear Plot

Independent Axis: Time Data



plot_1

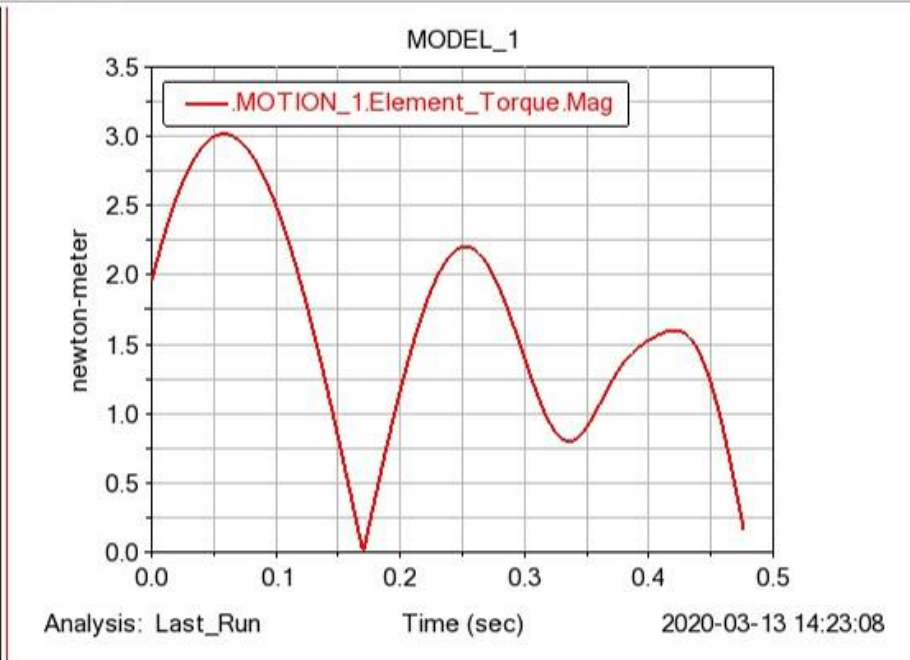
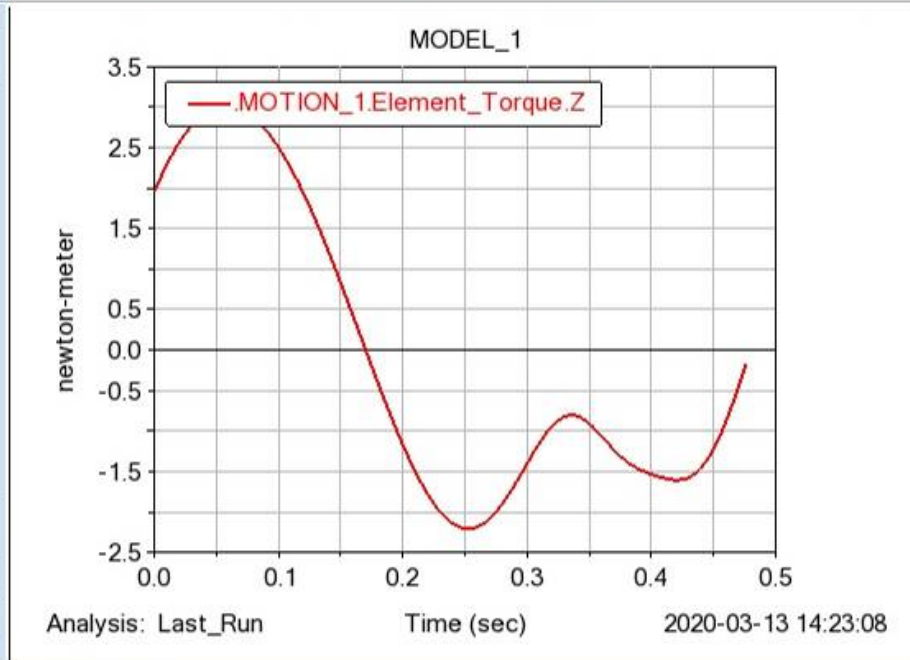
- analysis
- date
- title
- curve_1
- curve_2
- curve_3
- haxis
- vaxis
- legend_object

plot_2

- analysis
- date
- title
- curve_1
- haxis
- vaxis
- legend_object

page_2

Name Filter *



Data | Math |

Model	Filter	Object	Characteristic	Component	<input type="checkbox"/> Surf
.MODEL_1	body	+ JOINT_1	Power_Consumption	X	<input type="button" value="Add Curves"/>
	force	+ JOINT_2	Element_Force	Y	<input type="button" value="Add Curves To Current Plot"/>
	constraint	+ JOINT_3	Element_Torque	Z	<input type="button" value="Clear Plot"/>
		+ JOINT_4	Translational_Displacement	Mag	Independent Axis:
		+ MOTION_1	Translational_Velocity		<input checked="" type="radio"/> Time <input type="radio"/> Data
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

Source: Objects

Filter: *



- curve_1
- haxis
- vaxis
- legend_object
- page_2
- page_3
- page_4
- page_5
- page_6
- plot_11
 - analysis
 - date
 - title
 - curve_1
 - curve_2
 - curve_3
 - haxis
 - vaxis
 - legend_object

Name Filter *

Display
 Borderline
 Background

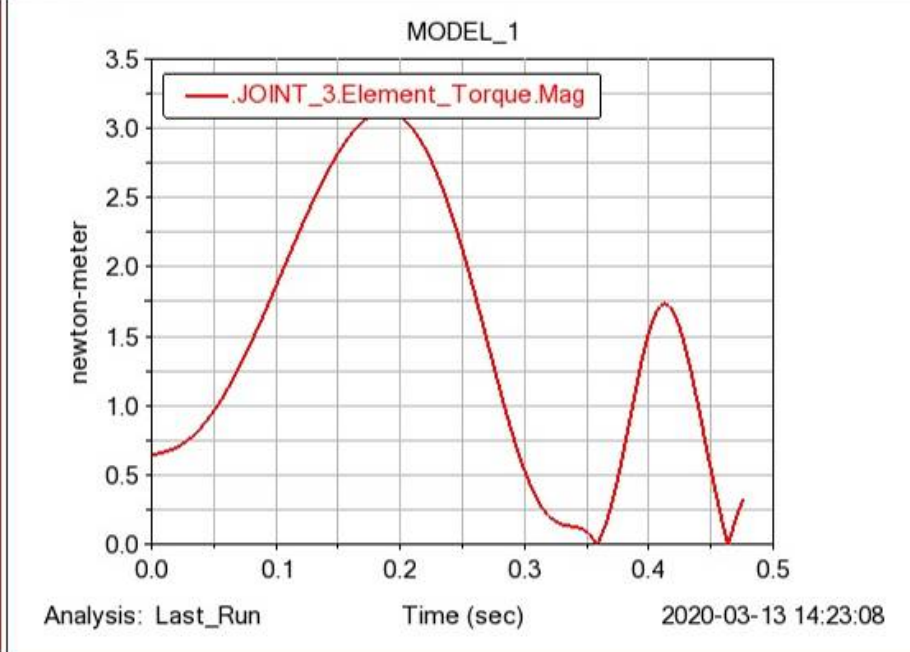
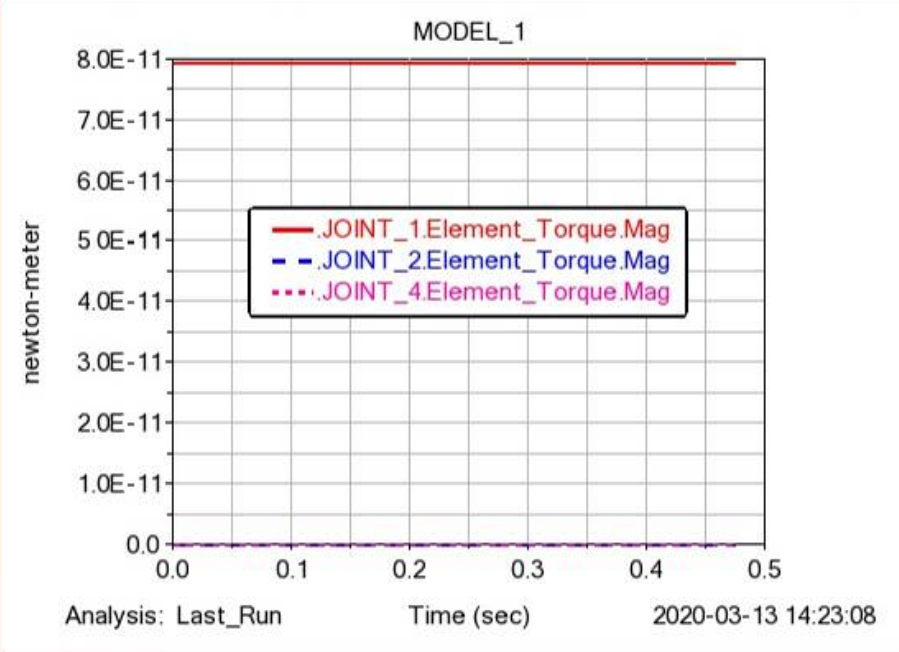
Placement: Top Left

Font Size: 9

Line Color: Black

Line Style: Solid Line

Line Weight: 1



Model	Filter	Object	Characteristic	Component	Surf
.MODEL_1	body	+ JOINT_1	Element_Force	X	<input checked="" type="checkbox"/>
	force	+ JOINT_2	Element_Torque	Y	
	constraint	+ JOINT_3	Translational_Displacement	Z	
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	
		+ MOTION_1	Translational_Velocity		
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

Source: Objects

Filter: *

Surf

Add Curves

Add Curves To Current Plot

Clear Plot

Independent Axis:

Time
 Data

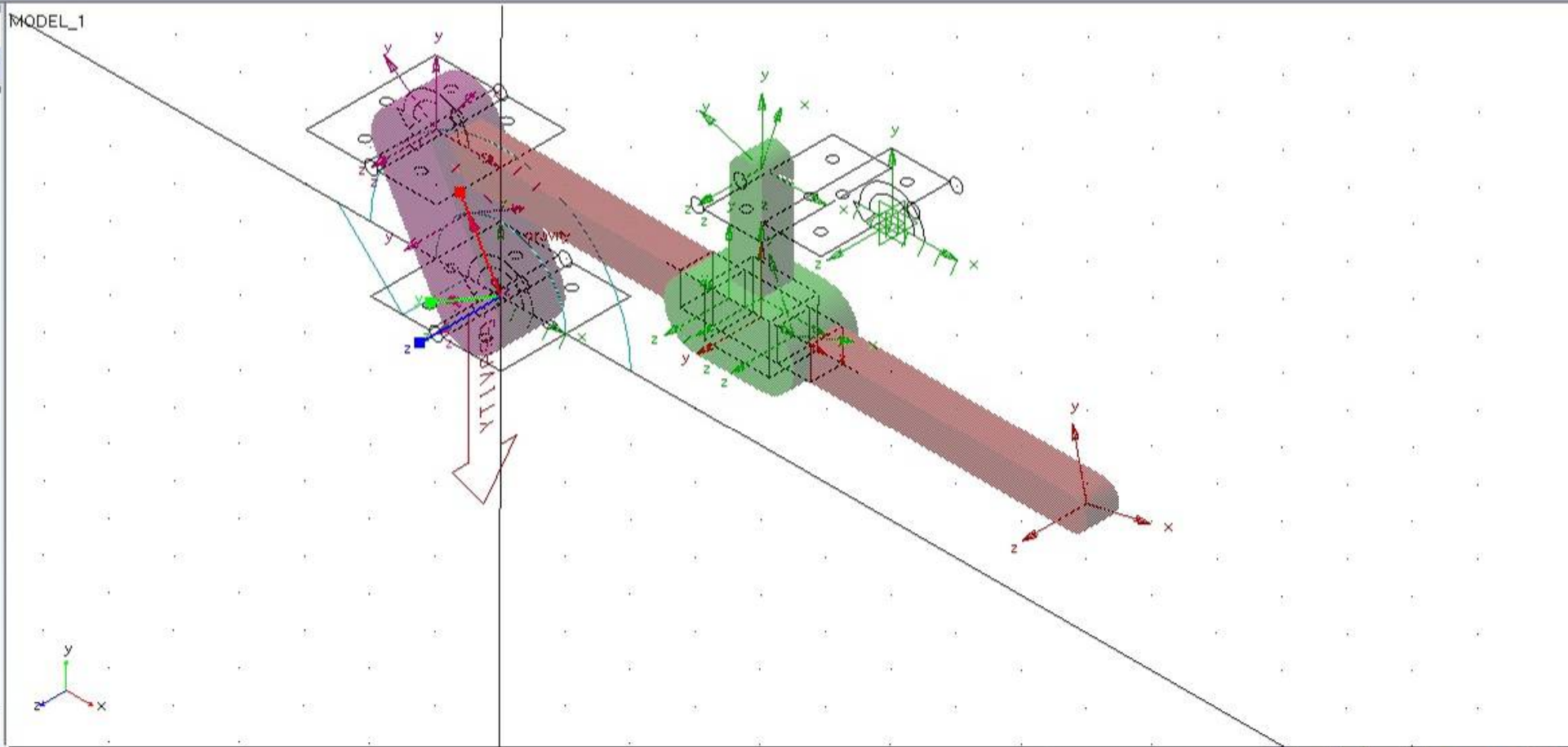
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - LINK_1
 - MARKER_11
 - MARKER_9
 - cm
 - MARKER_2
 - MARKER_1
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search

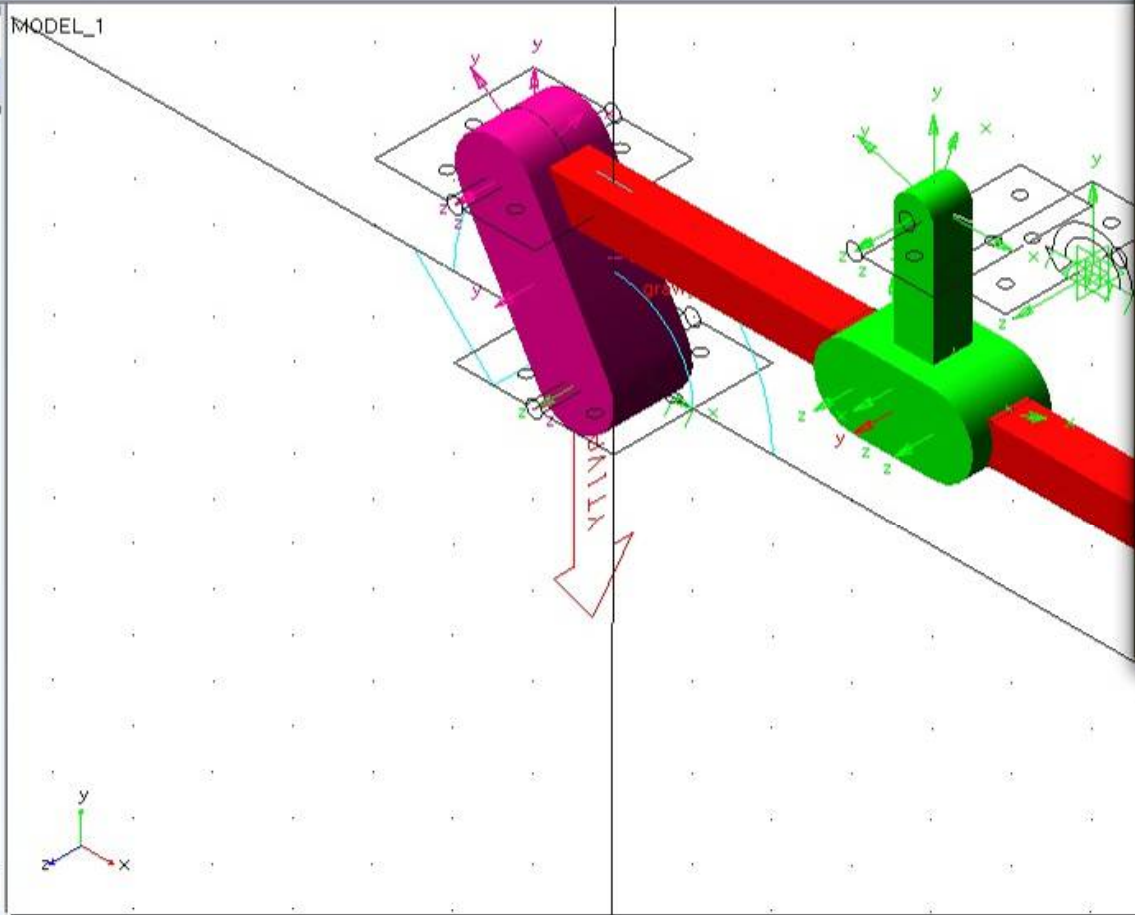


Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - LINK_1
 - MARKER_11
 - MARKER_9
 - cm
 - MARKER_2
 - MARKER_1
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Marker Modify

Name	.MODEL_1.PART_2.MARKER_1
Location	0.0, 0.0, 0.0
Location Relative To	.MODEL_1
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	120.0, 0.0, 0.0
Orientation Relative To	.MODEL_1
Solver ID	1

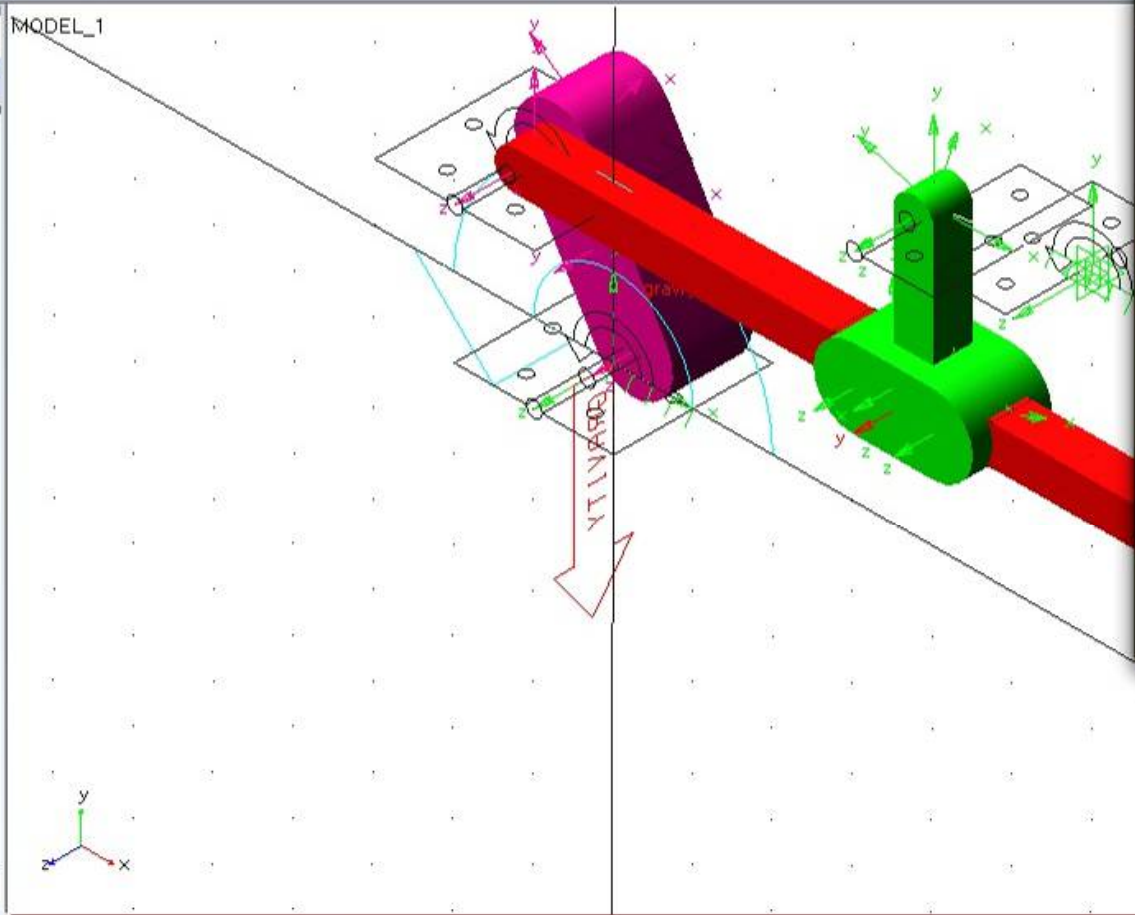
OK Apply Close

Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - LINK_1
 - MARKER_11
 - MARKER_9
 - cm
 - MARKER_2
 - MARKER_1
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Marker Modify

Name	.MODEL_1.PART_2.MARKER_1
Location	0.0, 0.0, $(-0.05+0.025)/2$
Location Relative To	.MODEL_1
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	120.0, 0.0, 0.0
Orientation Relative To	.MODEL_1
Solver ID	1

OK Apply Close

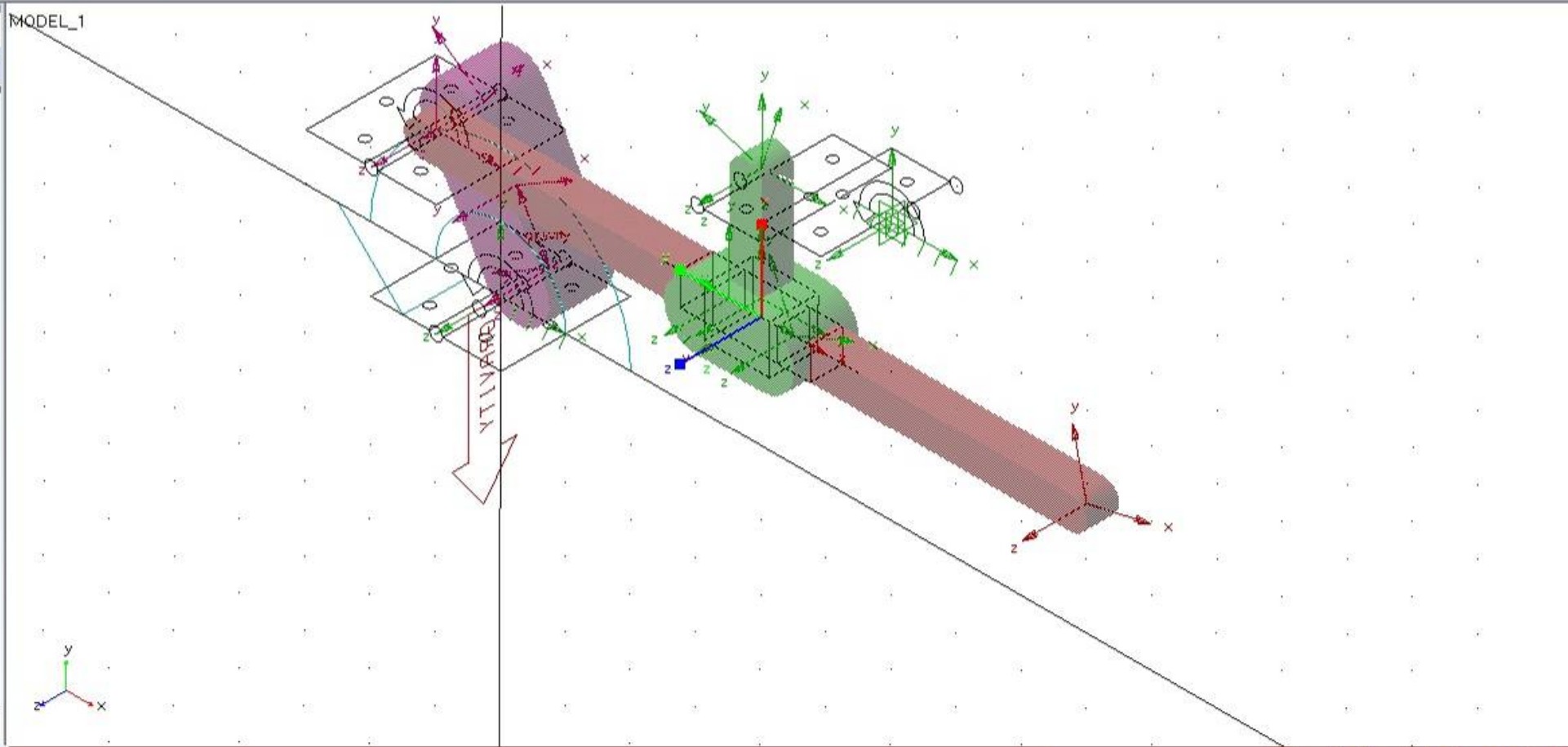
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - LINK_4
 - LINK_3
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5**
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search

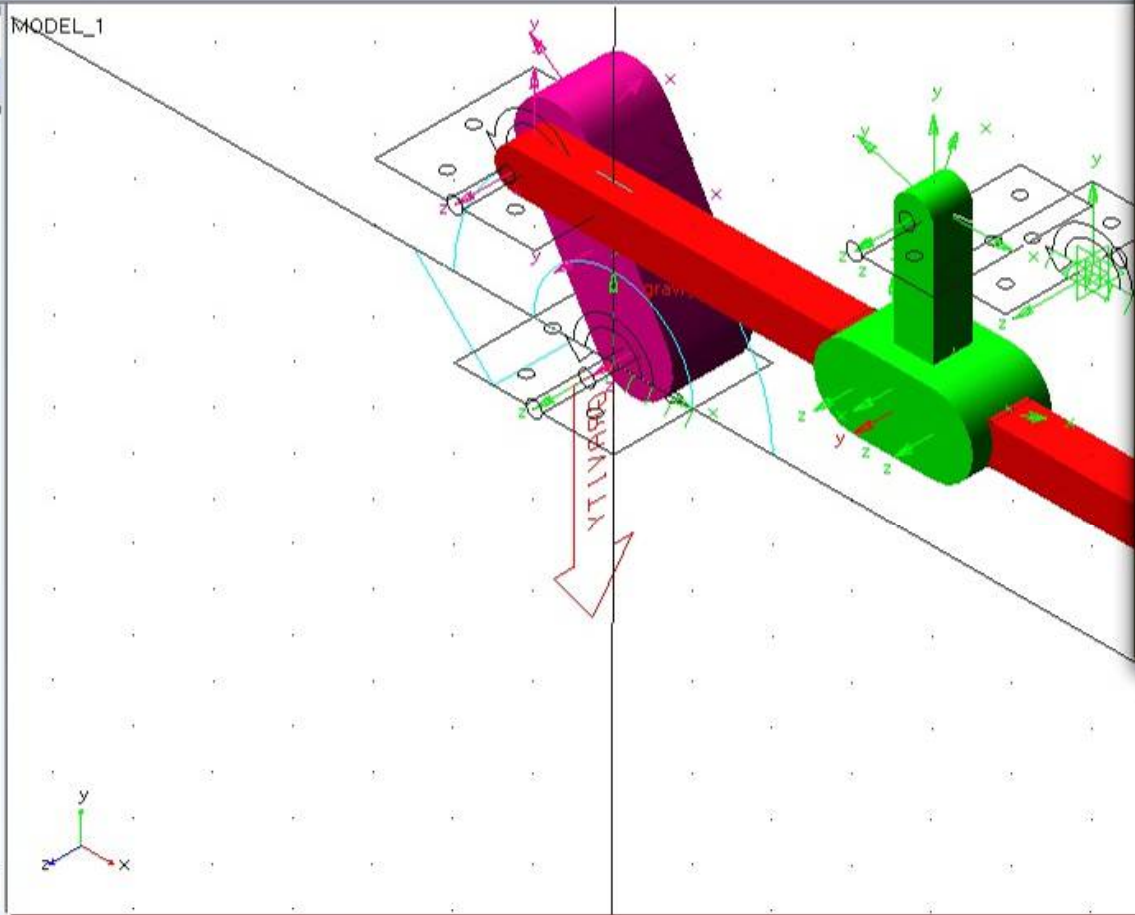


Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - LINK_4
 - LINK_3
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Marker Modify

Name	.MODEL_1.PART_4.MARKER_5
Location	0.2, 8.6602540378E-02, 0.0
Location Relative To	.MODEL_1
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	90.0, 0.0, 0.0
Orientation Relative To	.MODEL_1
Solver ID	5

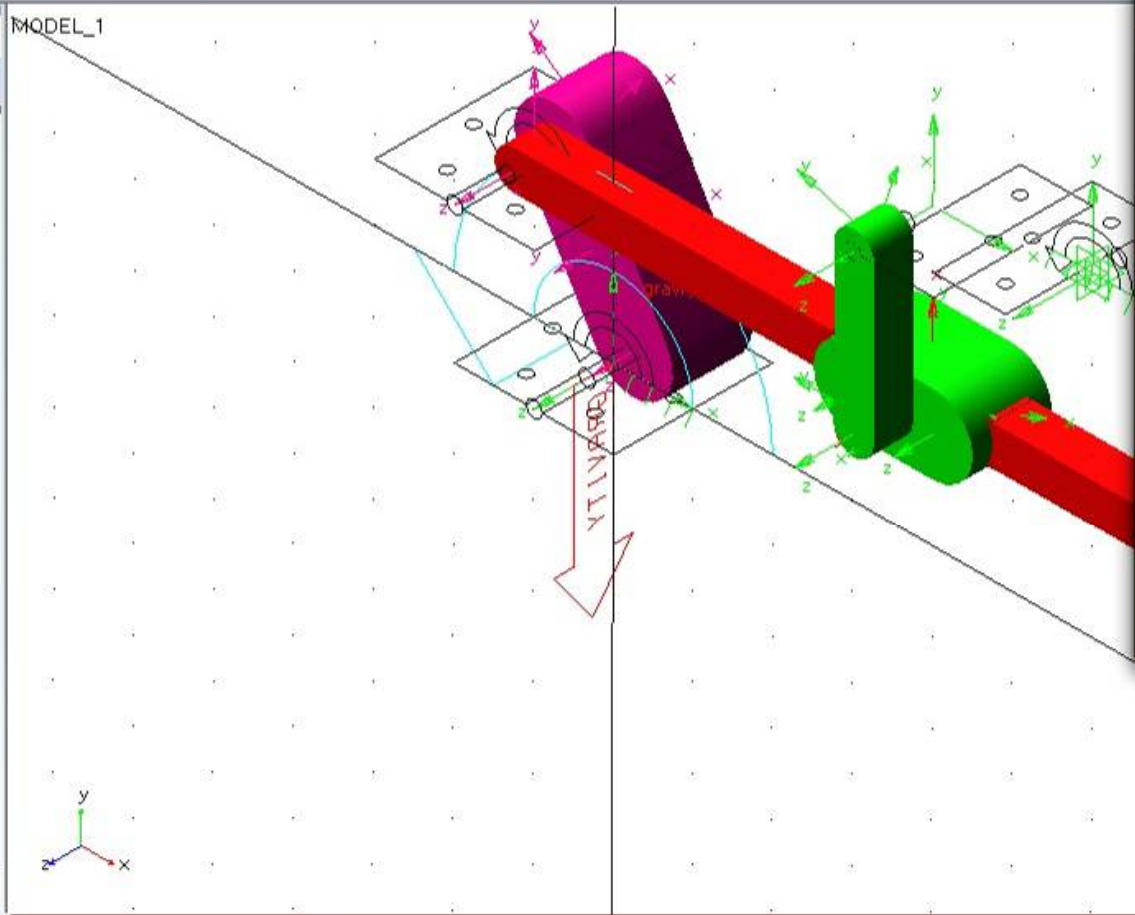
OK Apply Close

Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - LINK_4
 - LINK_3
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Marker Modify

Name	.MODEL_1.PART_4.MARKER_5
Location	0.2, 8.6602540378E-02, ((0.05+0.025)/2)
Location Relative To	.MODEL_1
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	90.0, 0.0, 0.0
Orientation Relative To	.MODEL_1
Solver ID	5

OK Apply Close

Review Postprocessor

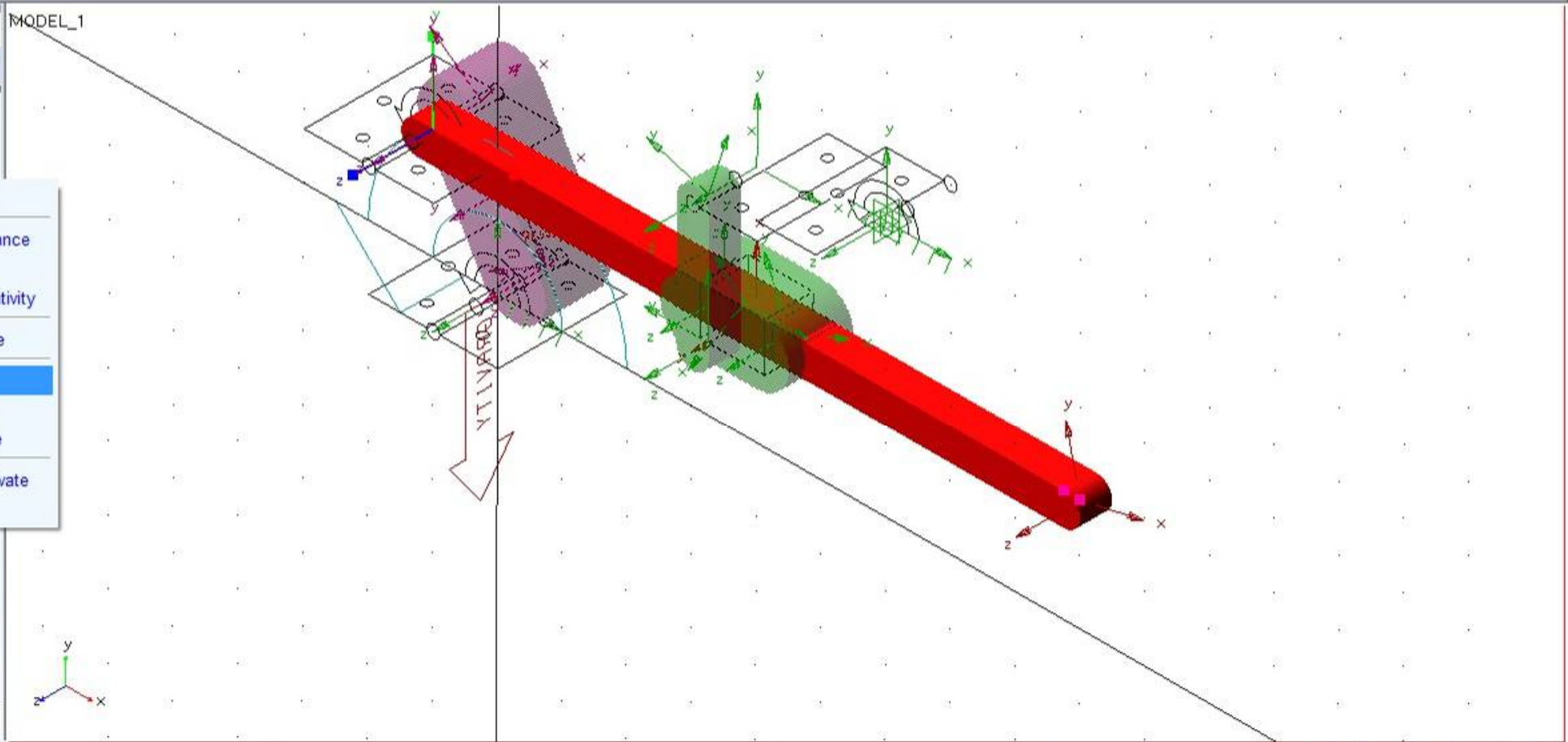
MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - LINK 2
 - MARKI
 - MARKI
 - cm
 - MARKI
 - MARKI
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variab
- Simulations
- Results
- All Other

Modify
Appearance
Info
Associativity
Measure
Copy
Delete
Rename
(De)activate
Hide

Search



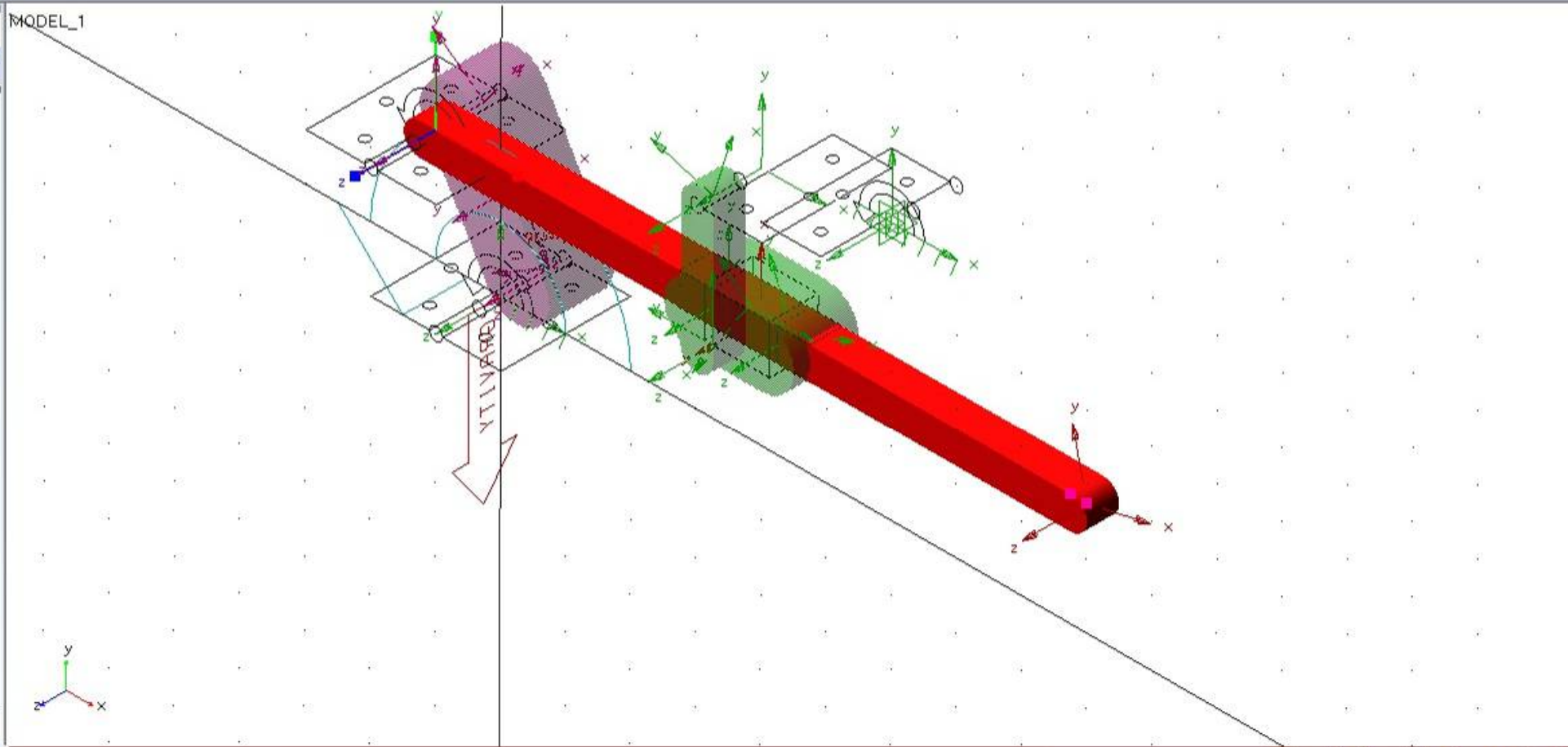
Review Postprocessor

MODEL_1

Browse Groups Filters

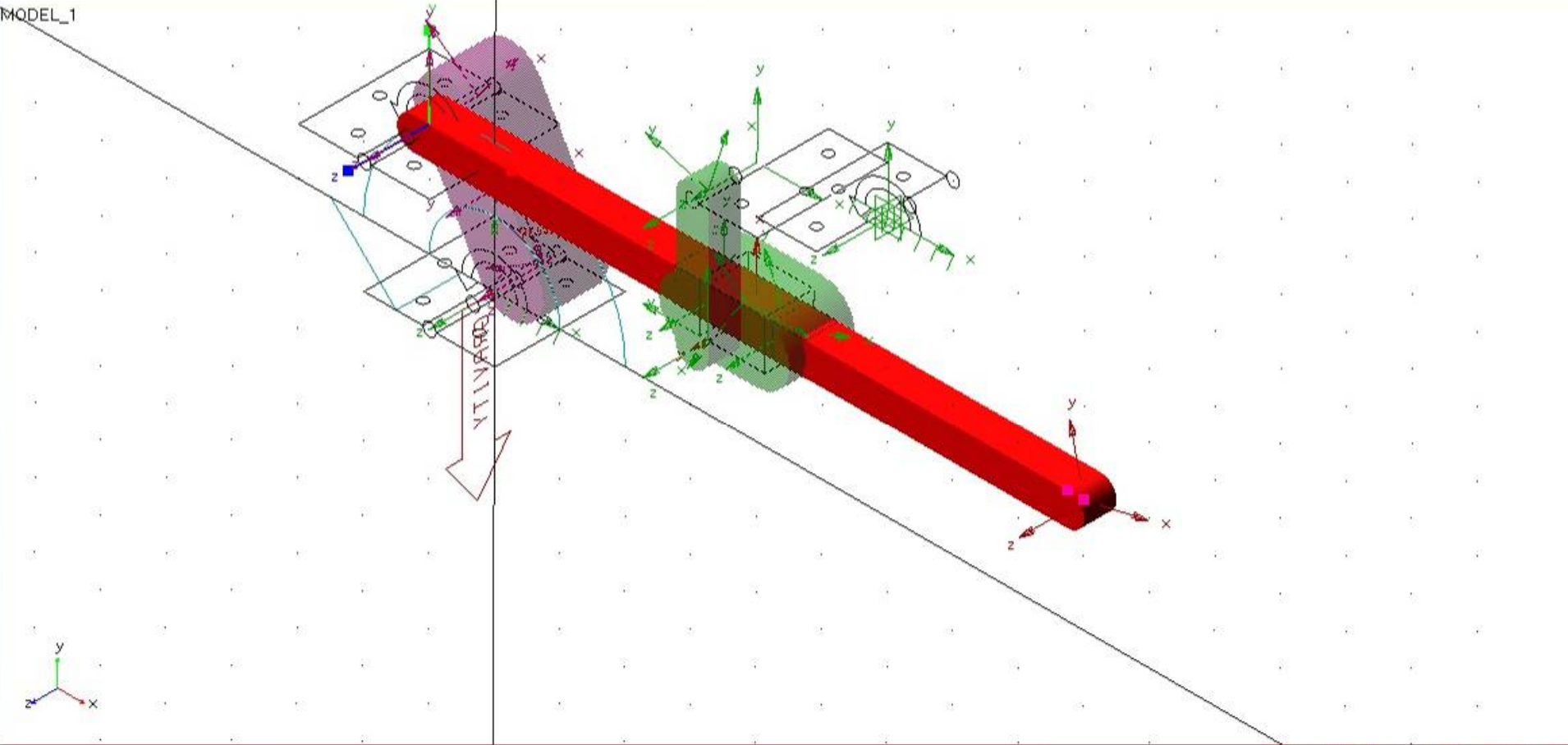
- Bodies
 - PART_4
 - PART_3
 - LINK
 - LINK_2
 - MARKER_13
 - MARKER_12
 - cm
 - MARKER_4
 - MARKER_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



Toolbars for Solids, Flexible Bodies, Construction, and Boolean operations.

MODEL_1
Browse Groups Filters
Bodies
PART_4
PART_3
LINK
LINK_2
MARKER_13
MARKER_12
cm
MARKER_4
MARKER_3
PART_2
ground
Connectors
Motions
Forces
Elements
Measures
Design Variables
Simulations
Results
All Other
Search

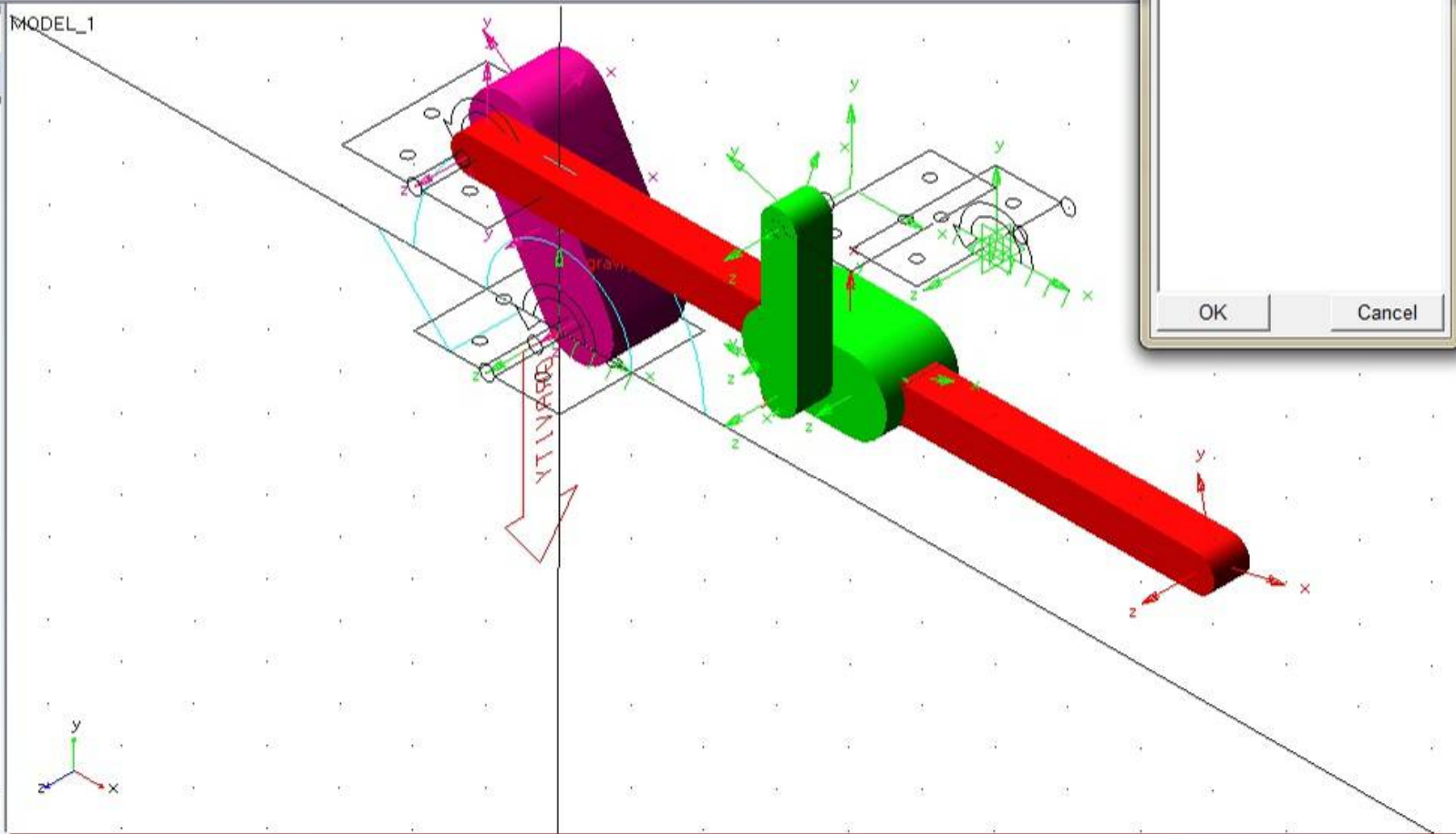


Solids Flexible Bodies Construction Booleans Features

MODEL_1

Browse Groups Filters

- Bodies
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Select

- PART_3.LINK
- PART_3.LINK_2
- PART_4.LINK_4

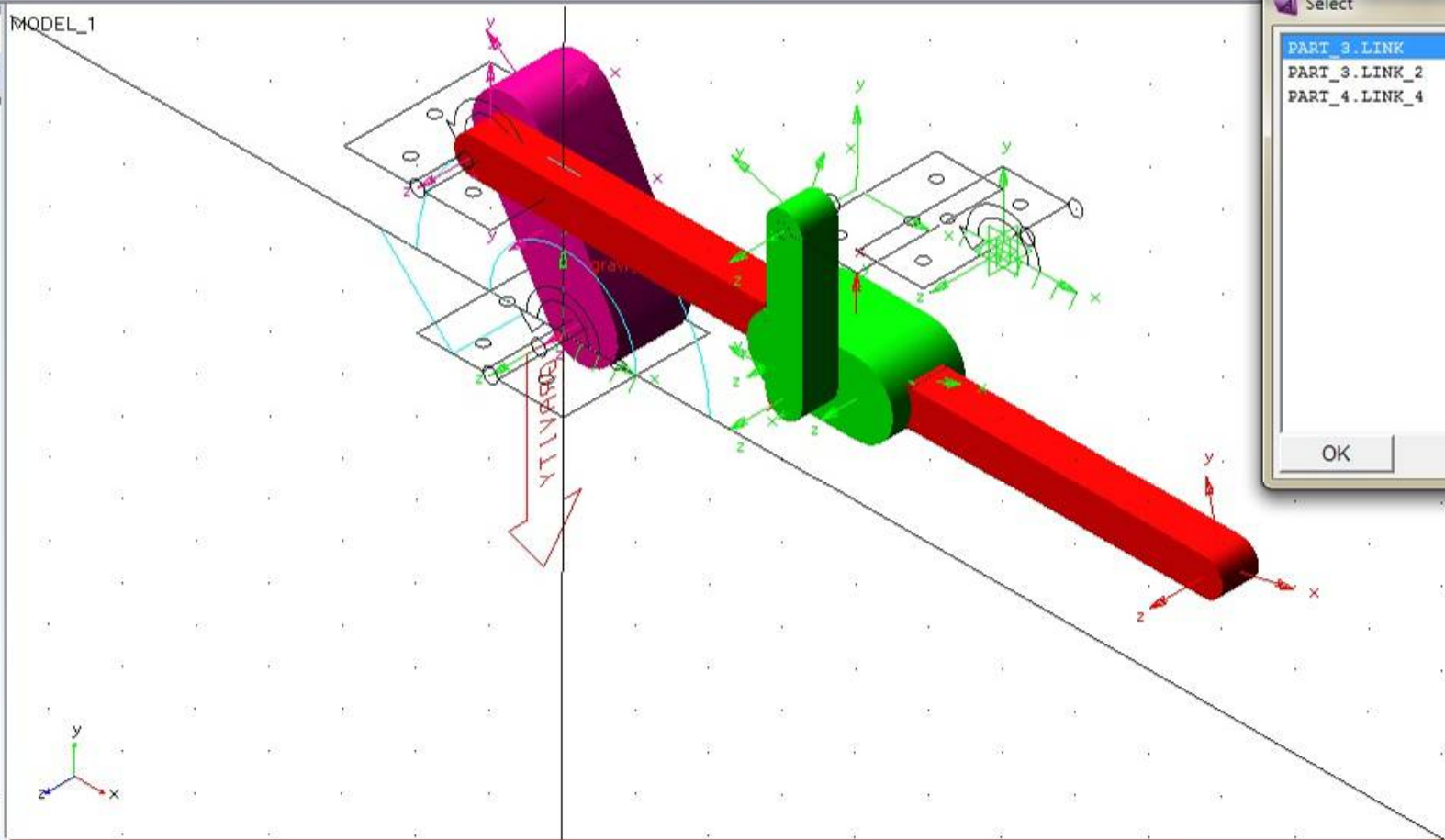
OK Cancel

Solids Flexible Bodies Construction Booleans Features

MODEL_1

Browse Groups Filters

- Bodies
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Select

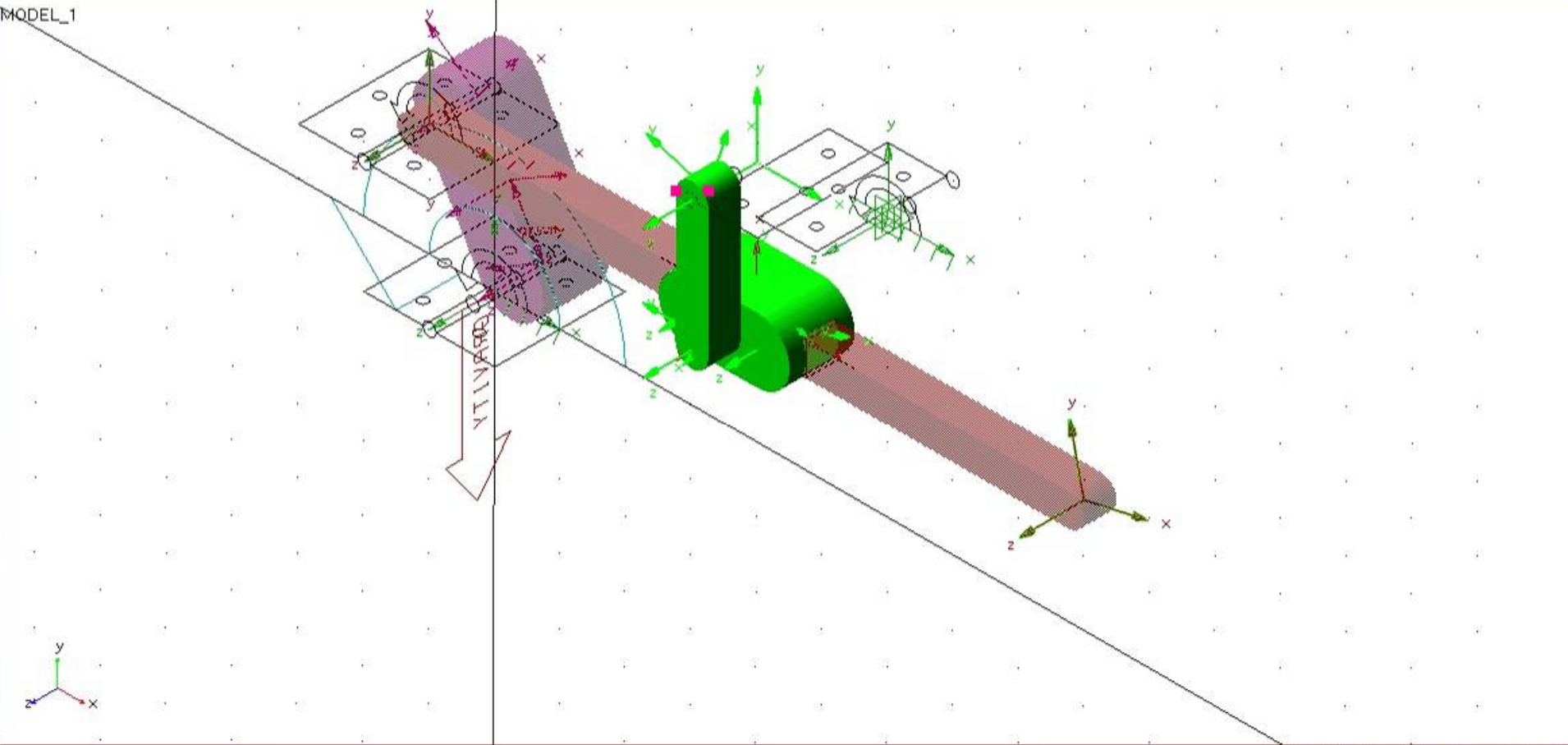
- PART_3.LINK
- PART_3.LINK_2
- PART_4.LINK_4

OK Cancel

Toolbars for Solids, Flexible Bodies, Construction, Booleans, and Features.

MODEL_1
Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Solids Flexible Bodies Construction Booleans Features

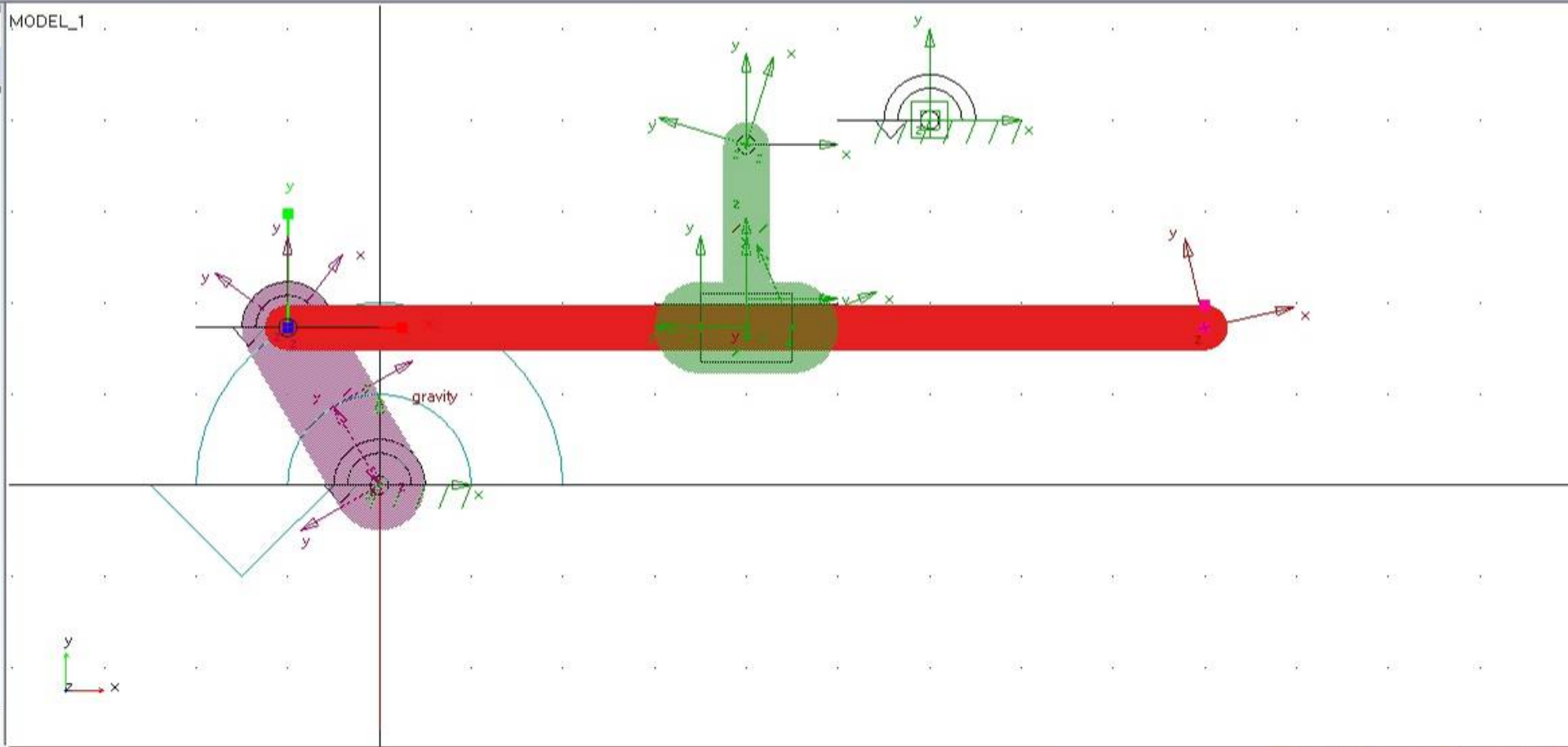
Add a hole

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

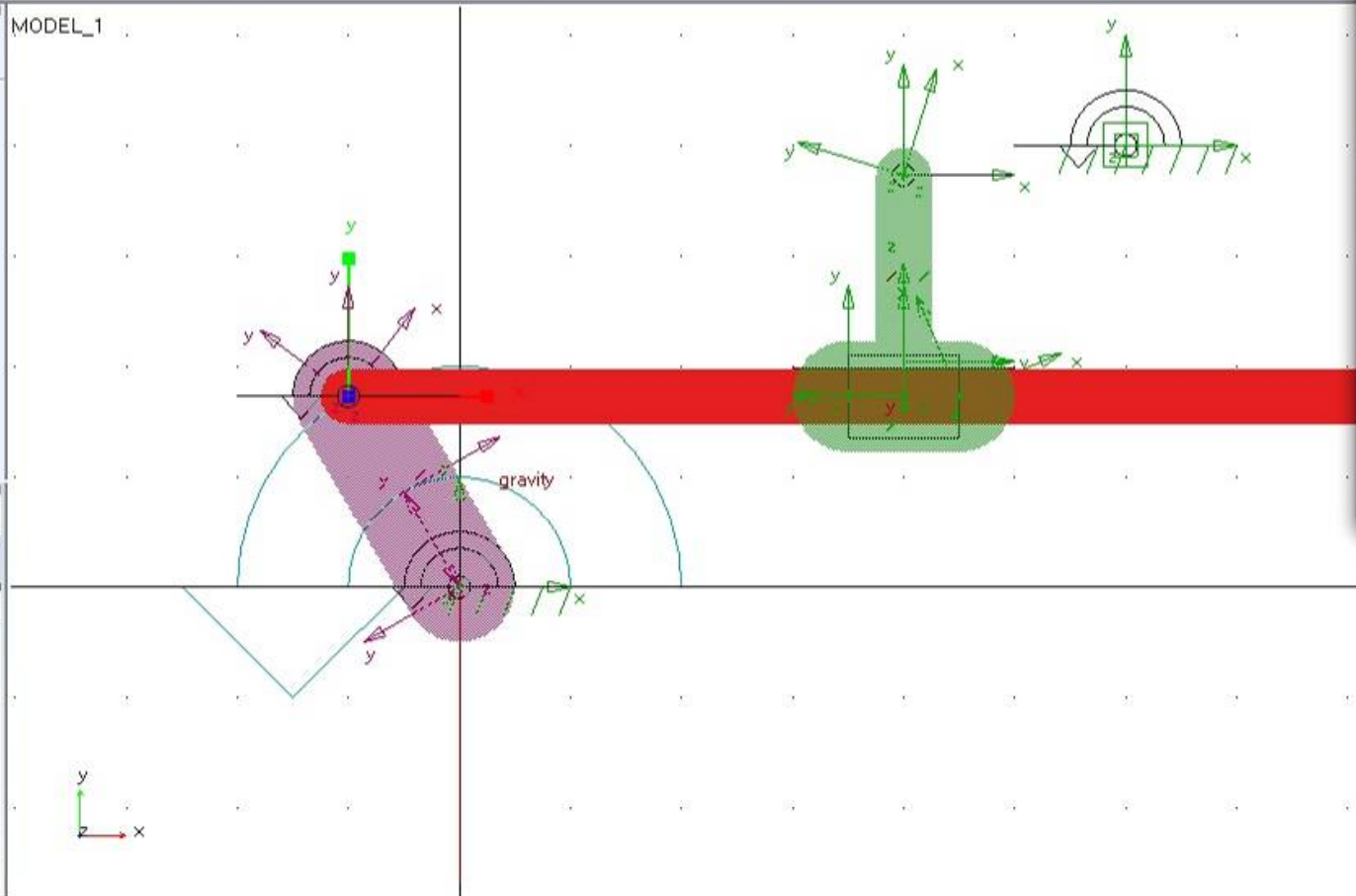
Search



Solids Flexible Bodies Construction Booleans Features

Feature: Hole
Radius (0.025/4)
Depth (1.0cm)

MODEL_1
Browse Groups Filters
Bodies
PART_4
CSG_15
LINK_3
MARKER_22
MARKER_21
MARKER_15
MARKER_14
MARKER_8



Select

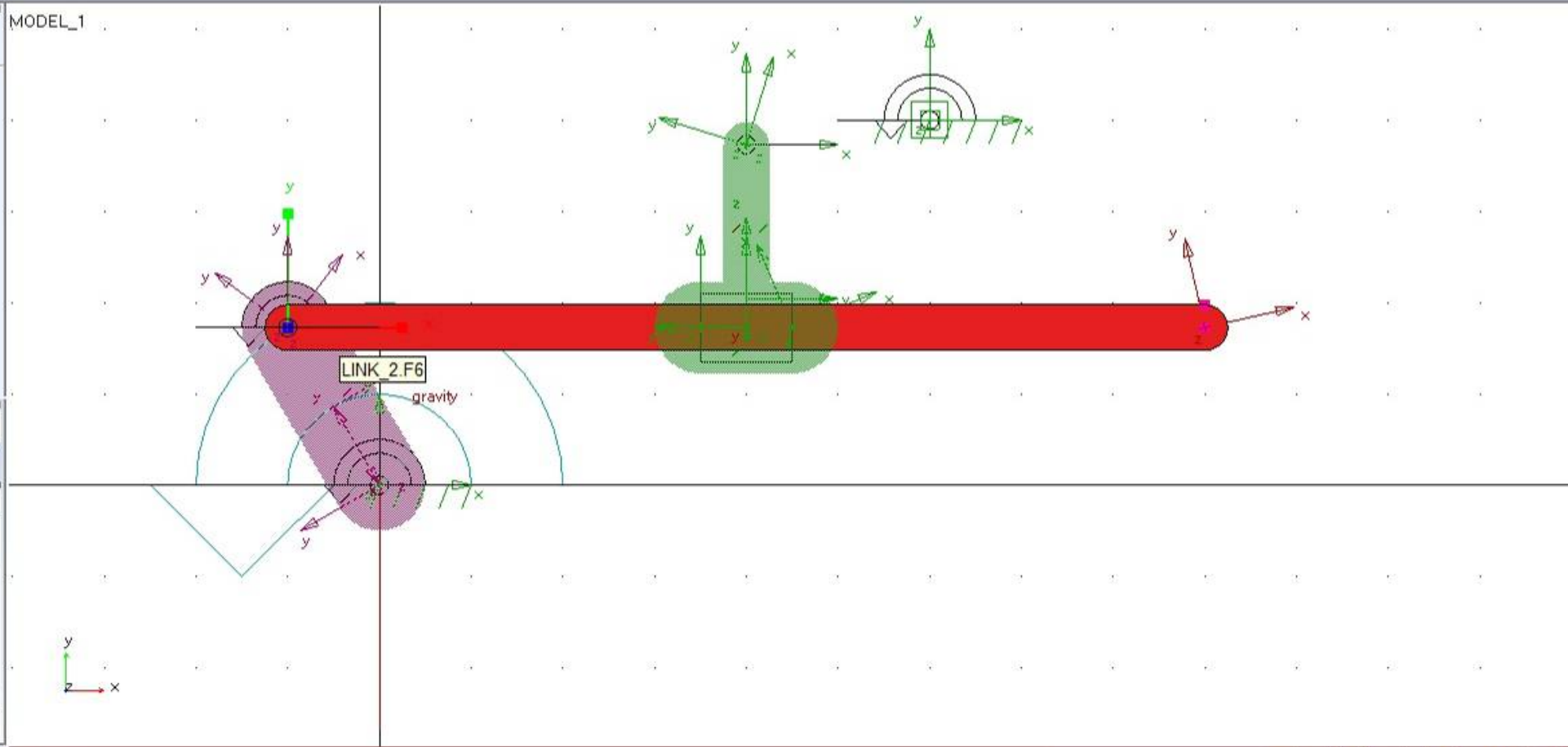
- PART_2.LINK_1
- PART_3.LINK_2

OK Cancel

Solids Flexible Bodies Construction Booleans Features

Feature: Hole
Radius (0.025/4)
Depth (1.0cm)

MODEL_1
Browse Groups Filters
Bodies
PART_4
CSG_15
LINK_3
MARKER_22
MARKER_21
MARKER_15
MARKER_14
MARKER_8



Hole: Select the location on the face

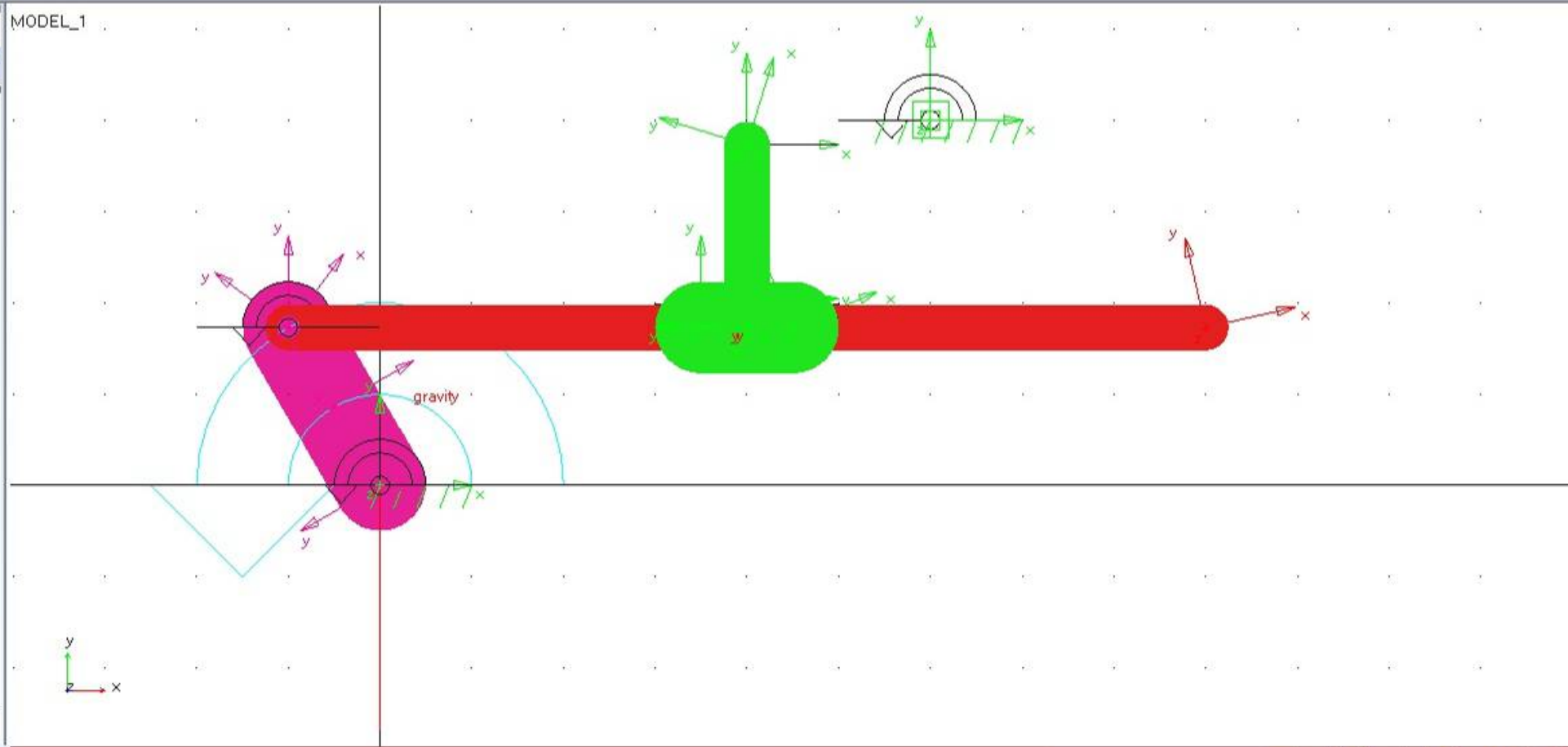
Solids Flexible Bodies Construction Booleans Features

MODEL_1

Browse Groups Filters

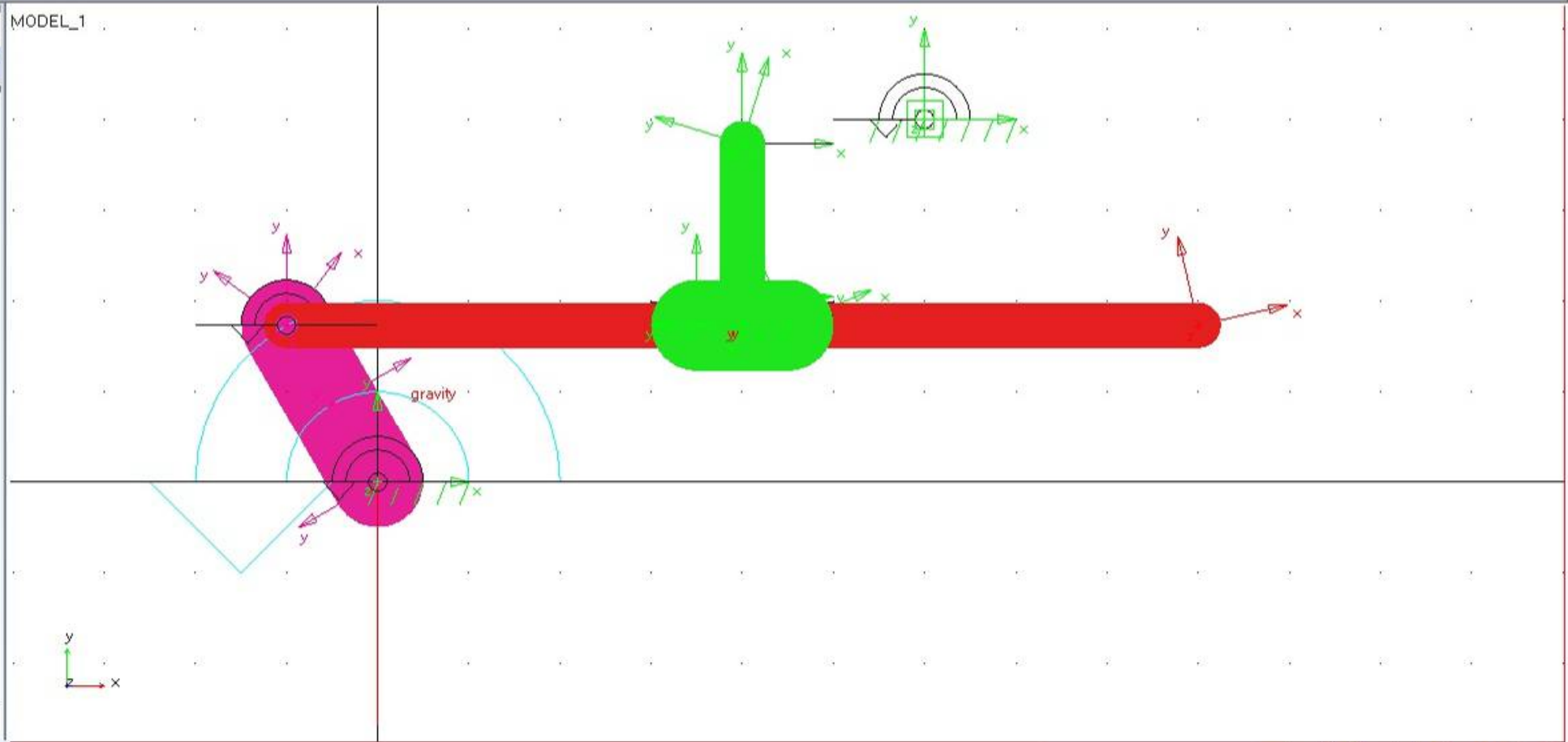
- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



Toolbars for Solids, Flexible Bodies, Construction, Booleans, and Add a boss.

MODEL_1
Browse Groups Filters
Bodies
PART_4
CSG_15
LINK_3
MARKER_22
MARKER_21
MARKER_15
MARKER_14
MARKER_8
MARKER_7
cm
MARKER_6
MARKER_5
PART_3
PART_2
ground
Connectors
Motions
Forces
Elements
Measures
Design Variables
Simulations
Results
All Other
Search



Solids Flexible Bodies Construction Booleans Features

Feature: Boss
Radius (0.025/4)
Height 0.025

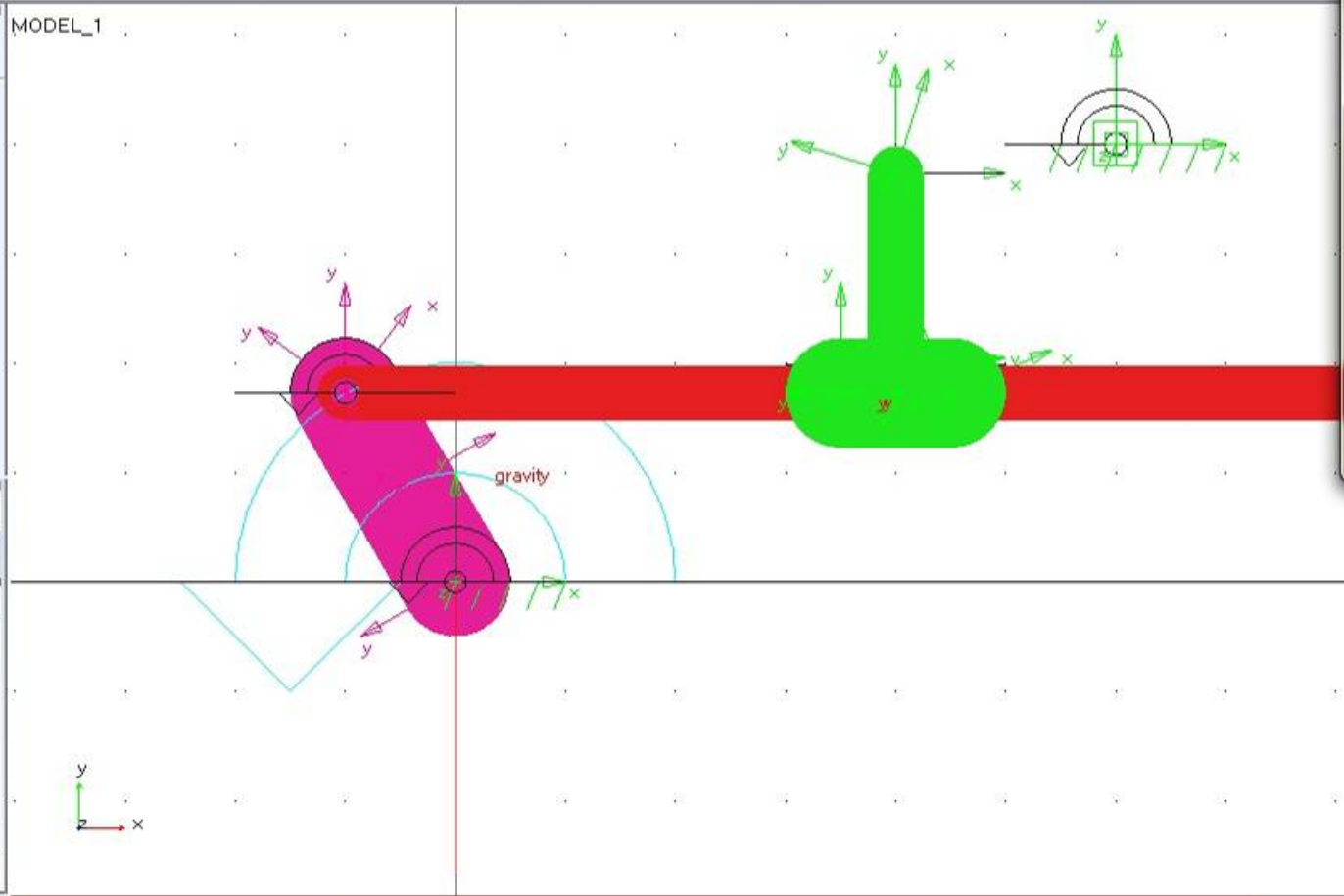
MODEL_1

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8

Search



Select

- PART_2.LINK_1
- PART_3.LINK_2

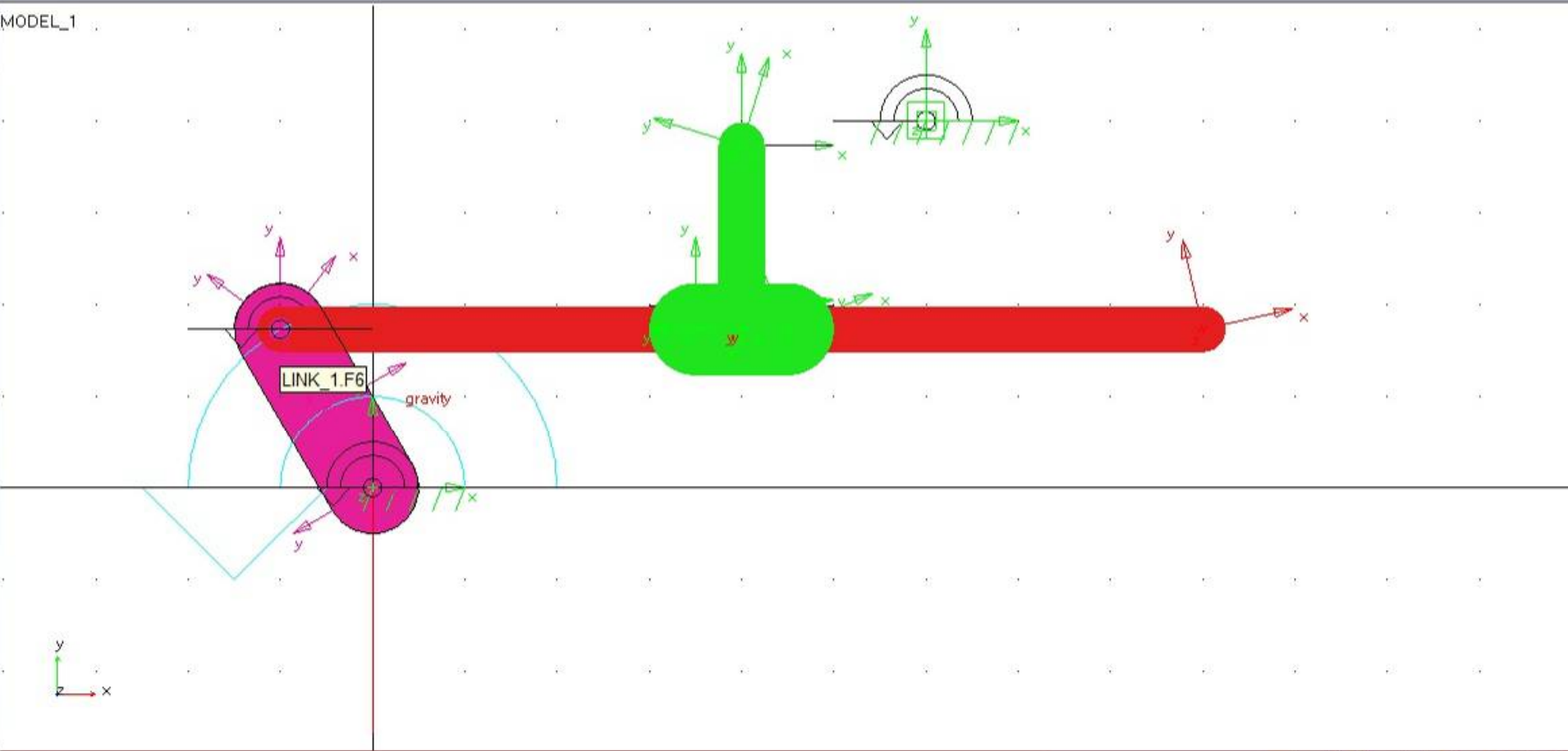
OK Cancel

Solids Flexible Bodies Construction Booleans Features

Feature: Boss
Radius (0.025/4)
Height 0.025

MODEL_1

MODEL_1
Browse Groups Filters
Bodies
PART_4
CSG_15
LINK_3
MARKER_22
MARKER_21
MARKER_15
MARKER_14
MARKER_8



Boss: Select the location on the face

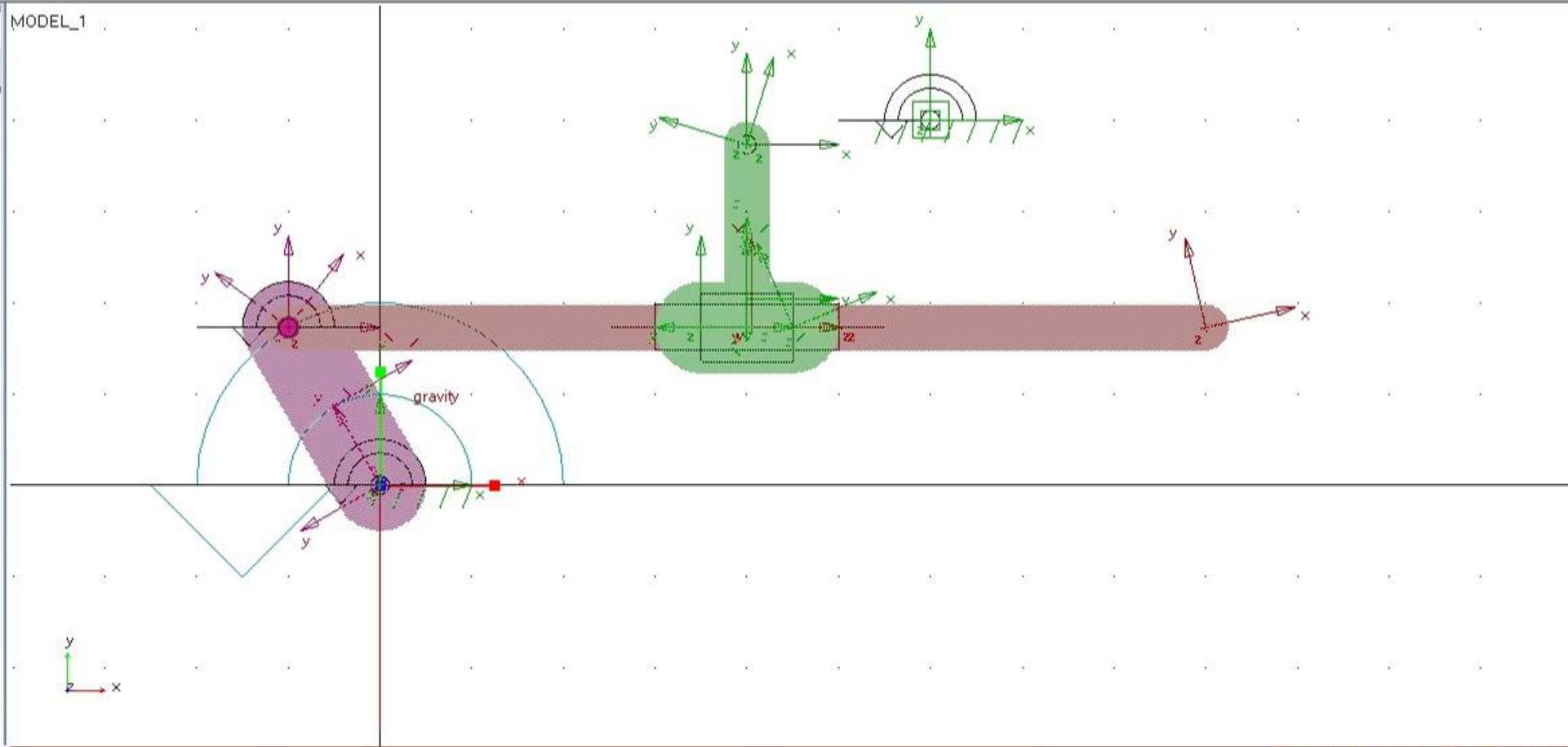
Solids Flexible Bodies Construction Booleans Features

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

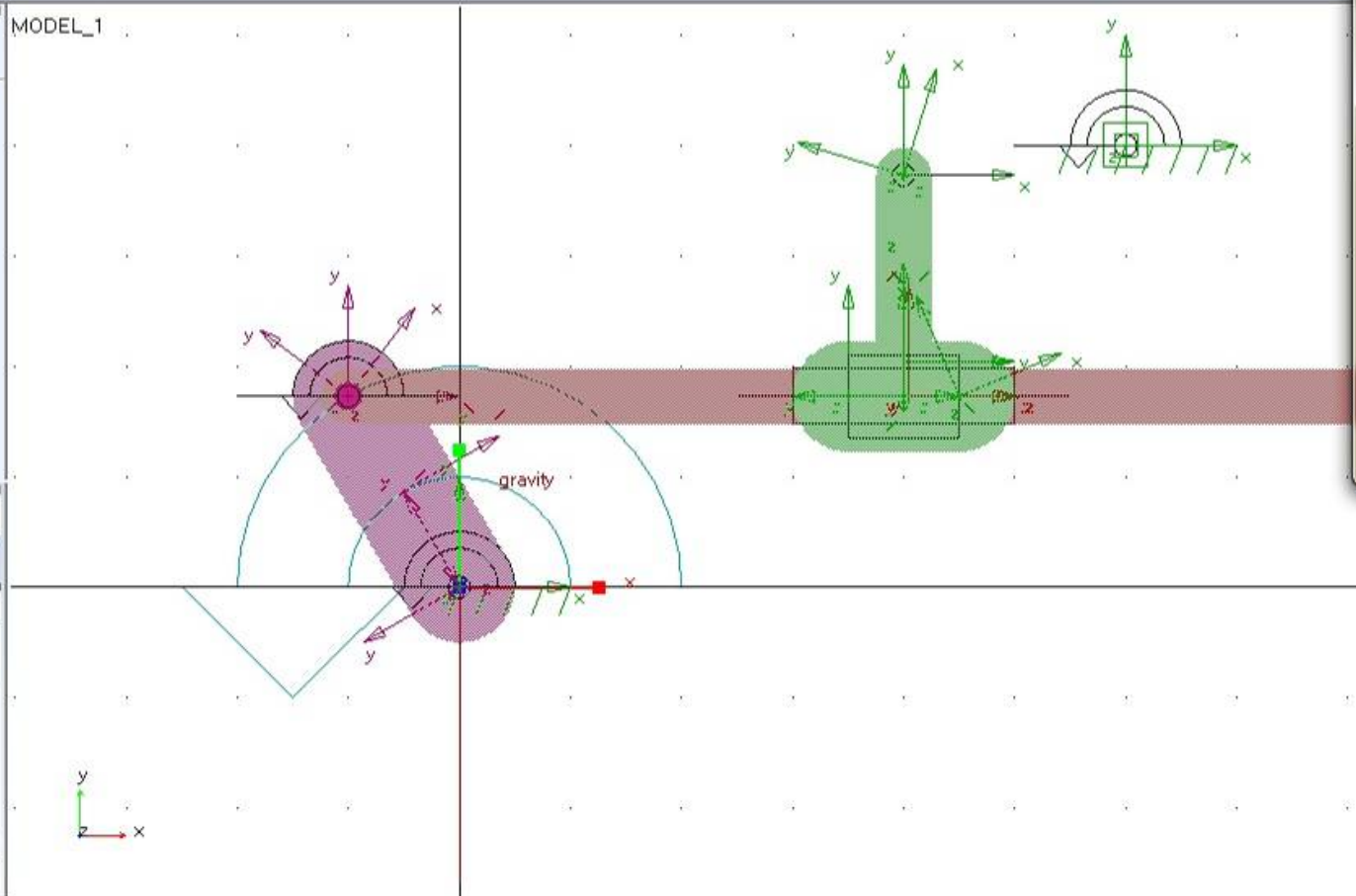
Search



Solids Flexible Bodies Construction Booleans Features

Feature: Hole
Radius (0.025/4)
Depth (1.0cm)

MODEL_1
Browse Groups Filters
Bodies
PART_4
CSG_15
LINK_3
MARKER_22
MARKER_21
MARKER_15
MARKER_14
MARKER_8

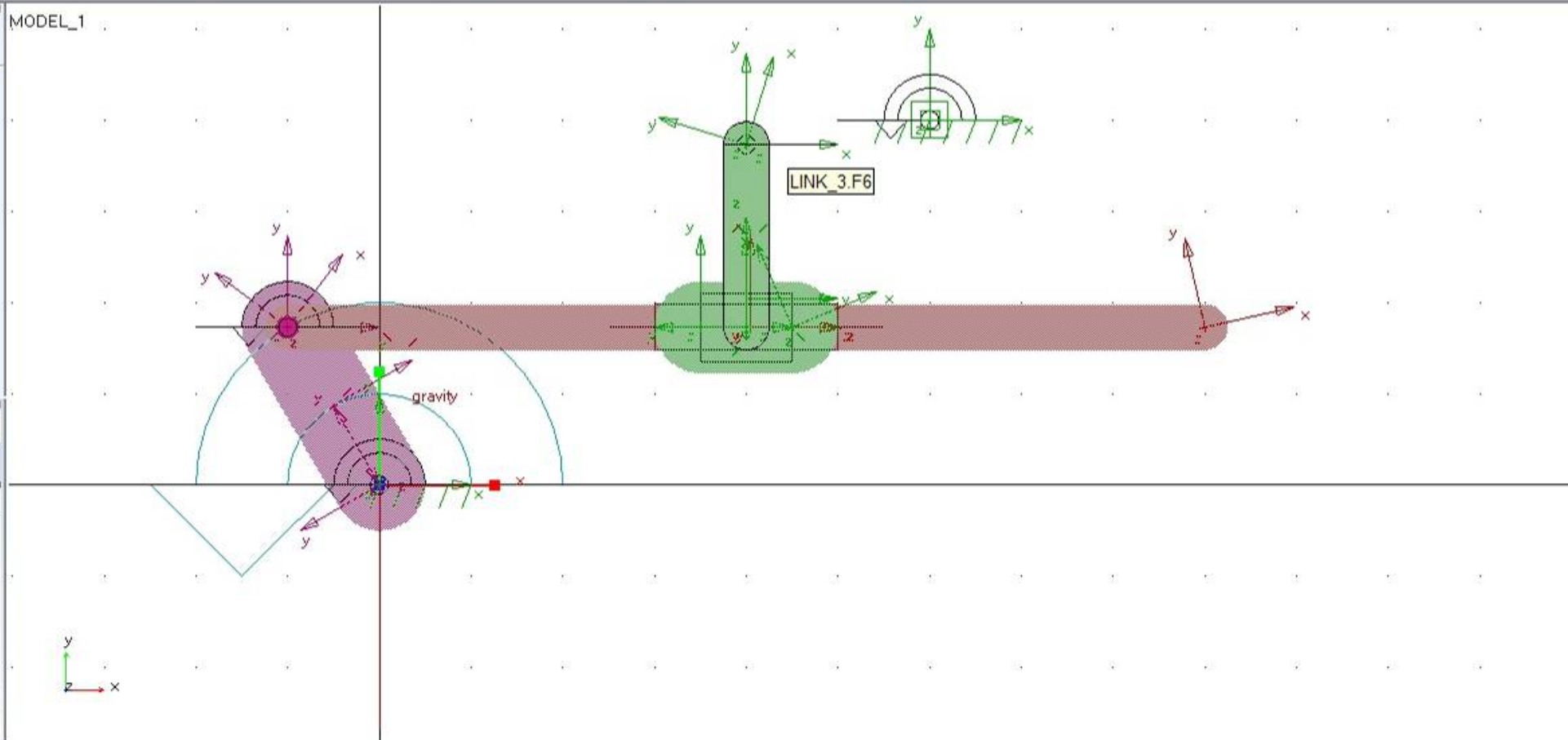


Select
PART_4.LINK_3
OK Cancel

Solids Flexible Bodies Construction Booleans Features

Feature: Hole
Radius (0.025/4)
Depth (1.0cm)

MODEL_1
Bodies
PART_4
CSG_15
LINK_3
MARKER_22
MARKER_21
MARKER_15
MARKER_14
MARKER_8



Hole: Select the location on the face

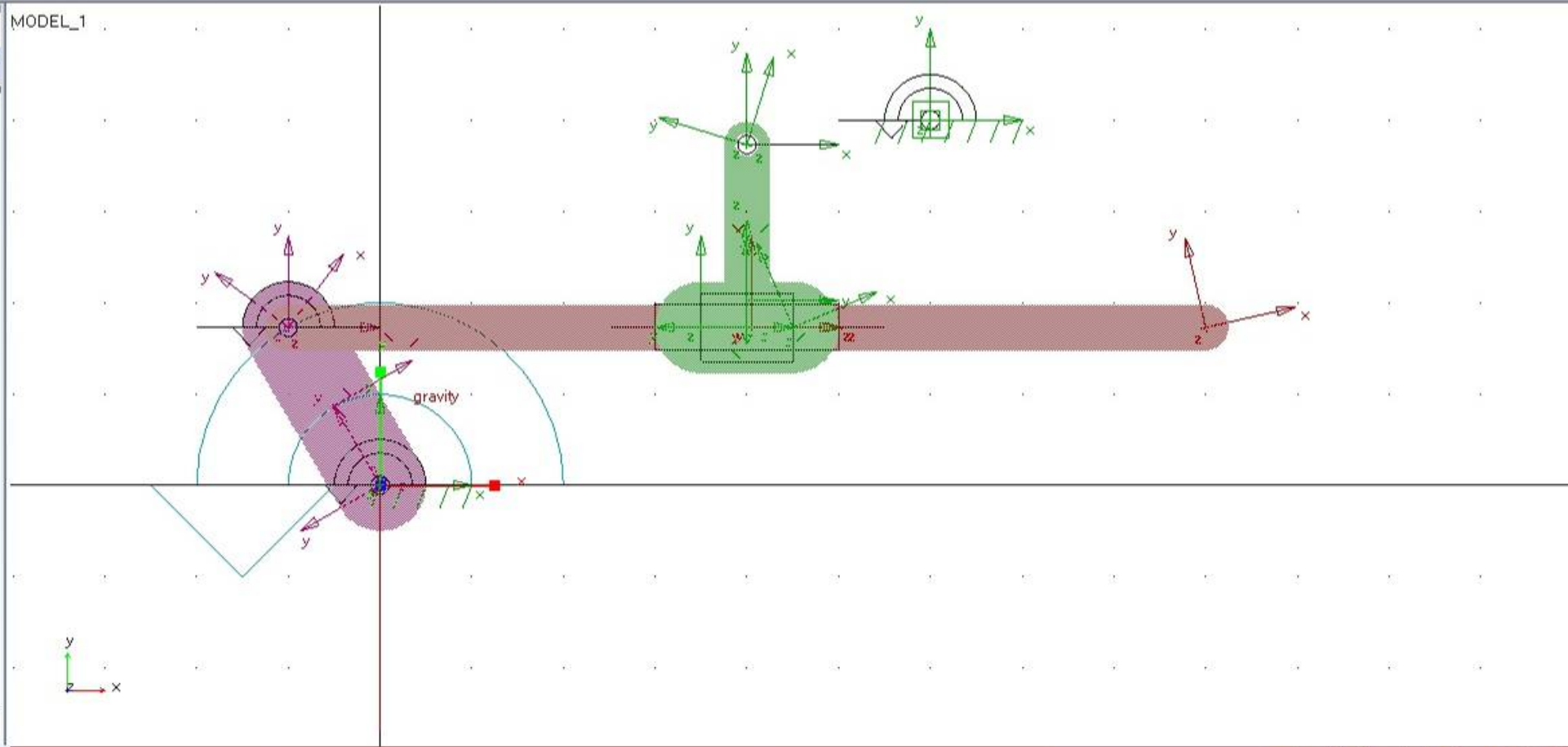
Solids Flexible Bodies Construction Booleans Features

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

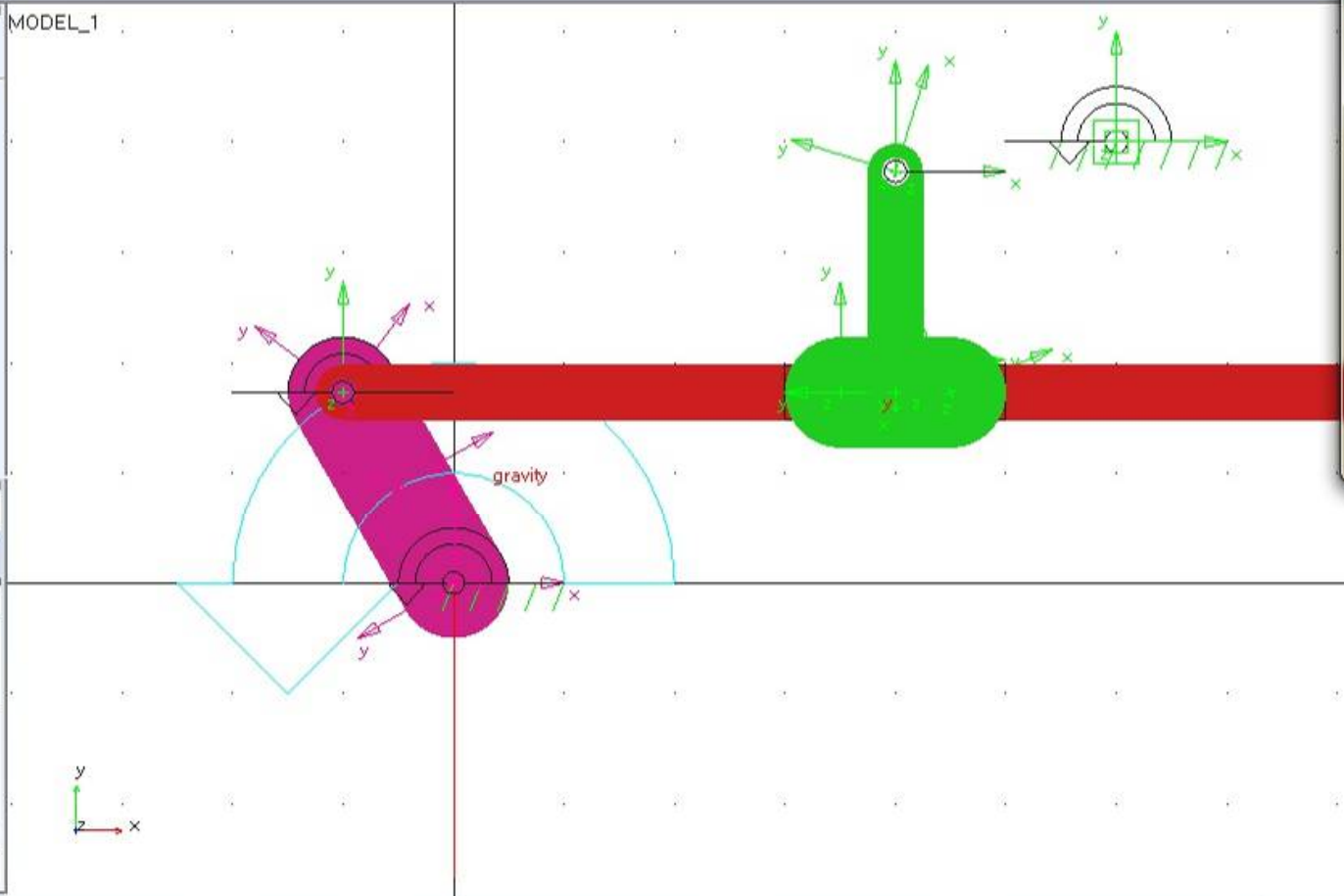
Search



Solids Flexible Bodies Construction Booleans Features

Feature: Hole
Radius (0.05/4)
Depth (1.0cm)

MODEL_1
Browse Groups Filters
Bodies
PART_4
PART_3
PART_2
LINK_1
MARKER_11
MARKER_9
cm
MARKER_2

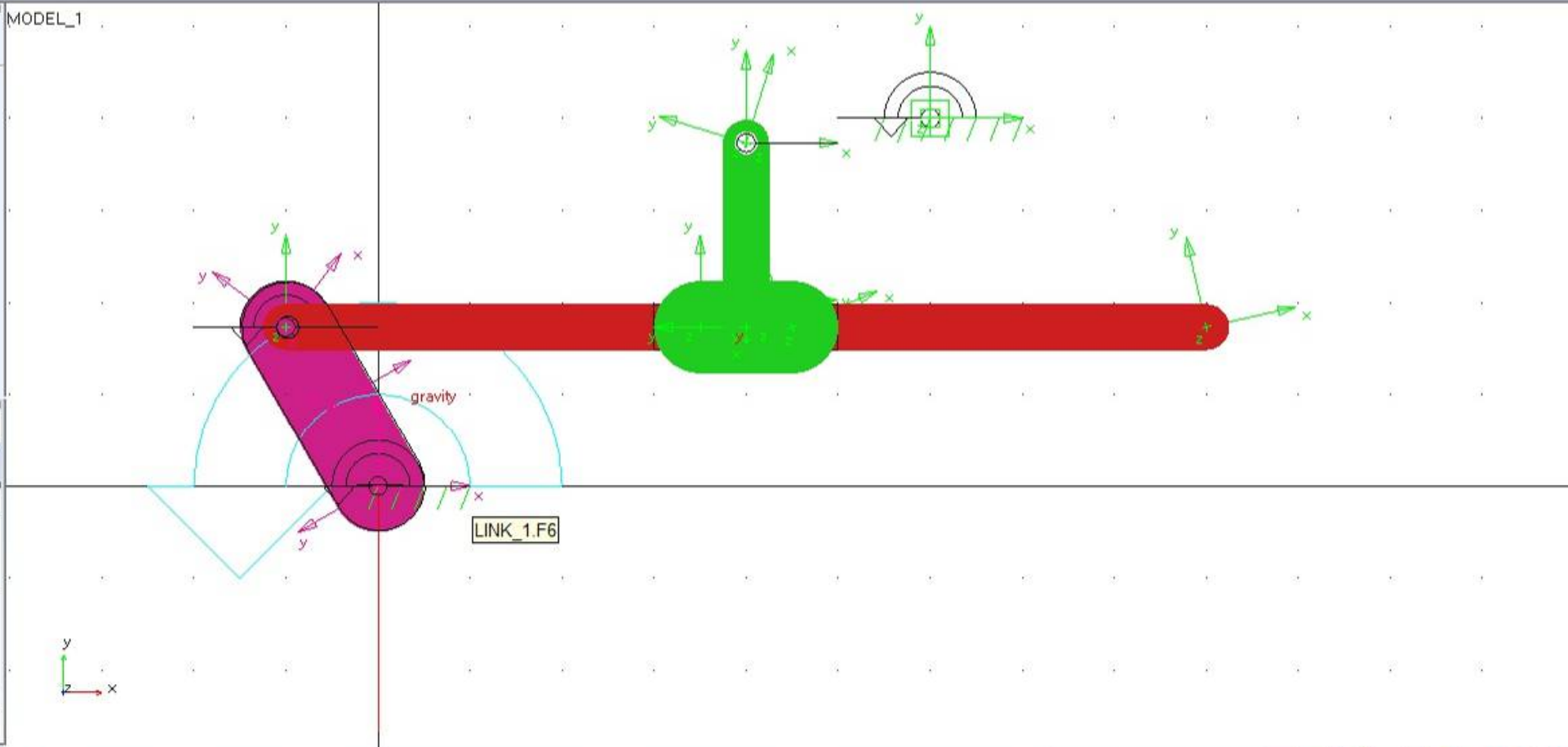


Select
PART_2 LINK_1
OK Cancel

Solids Flexible Bodies Construction Booleans Features

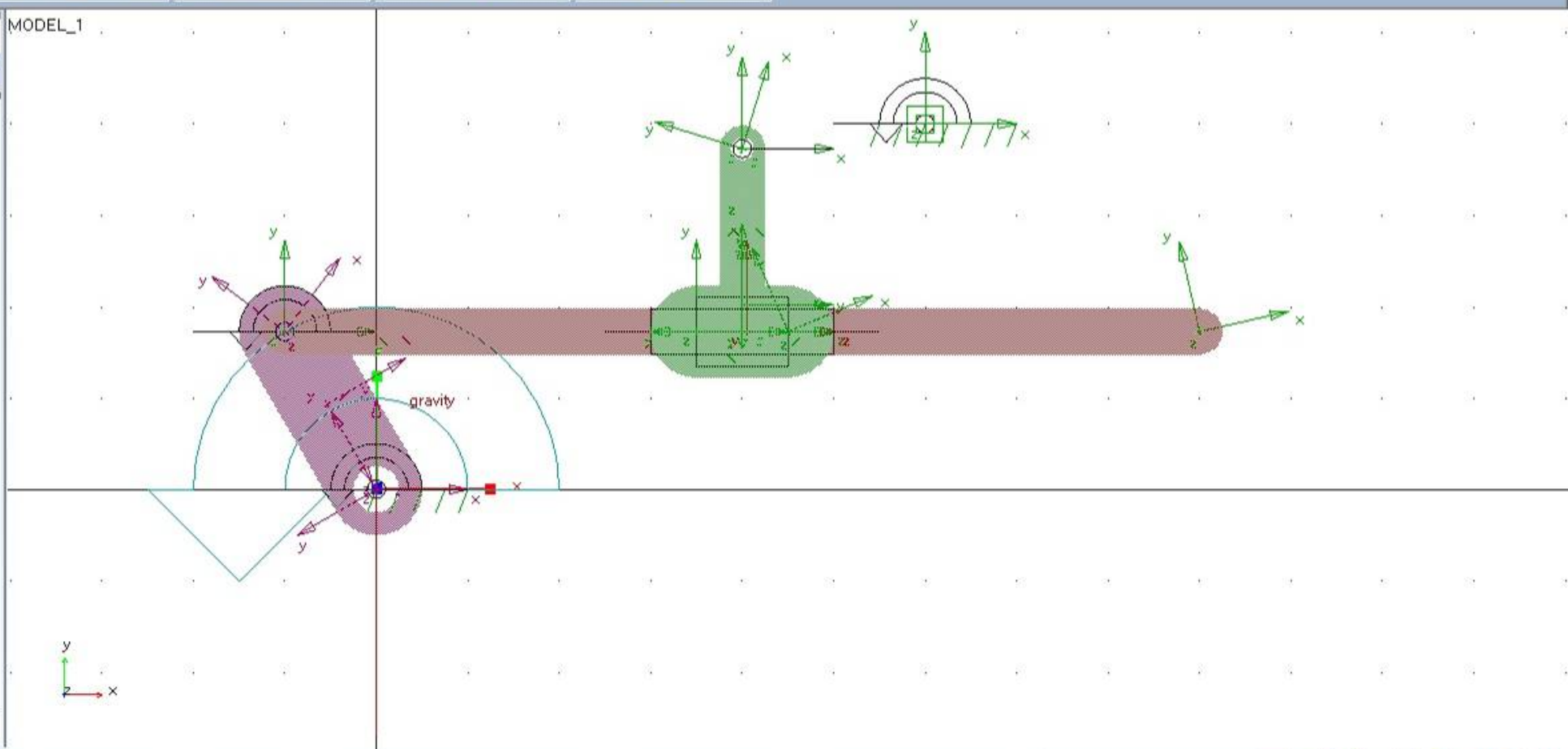
Feature: Hole
Radius (0.05/4)
Depth (1.0cm)

MODEL_1
Browse Groups Filters
Bodies
PART_4
PART_3
PART_2
LINK_1
MARKER_11
MARKER_9
cm
MARKER_2



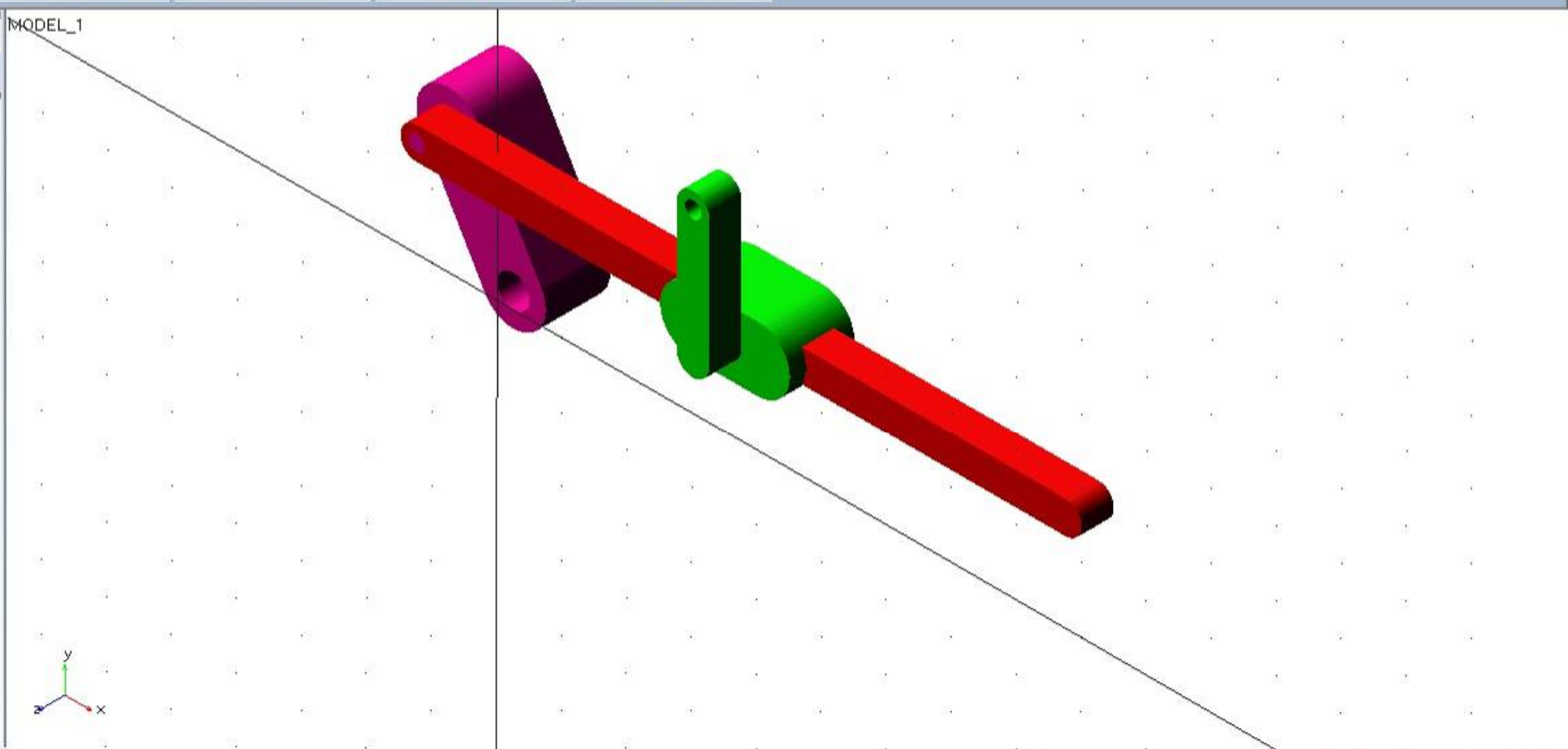
Toolbars for Solids, Flexible Bodies, Construction, Booleans, and Features.

MODEL_1
Browse Groups Filters
Bodies
PART_4
PART_3
PART_2
LINK_1
MARKER_11
MARKER_9
cm
MARKER_2
MARKER_1
ground
Connectors
Motions
Forces
Elements
Measures
Design Variables
Simulations
Results
All Other
Search



Toolbars for Solids, Flexible Bodies, Construction, Booleans, and Features.

MODEL_1
Browse Groups Filters
Bodies
PART_4
PART_3
PART_2
LINK_1
MARKER_11
MARKER_9
cm
MARKER_2
MARKER_1
ground
Connectors
Motions
Forces
Elements
Measures
Design Variables
Simulations
Results
All Other



Setup Simulate

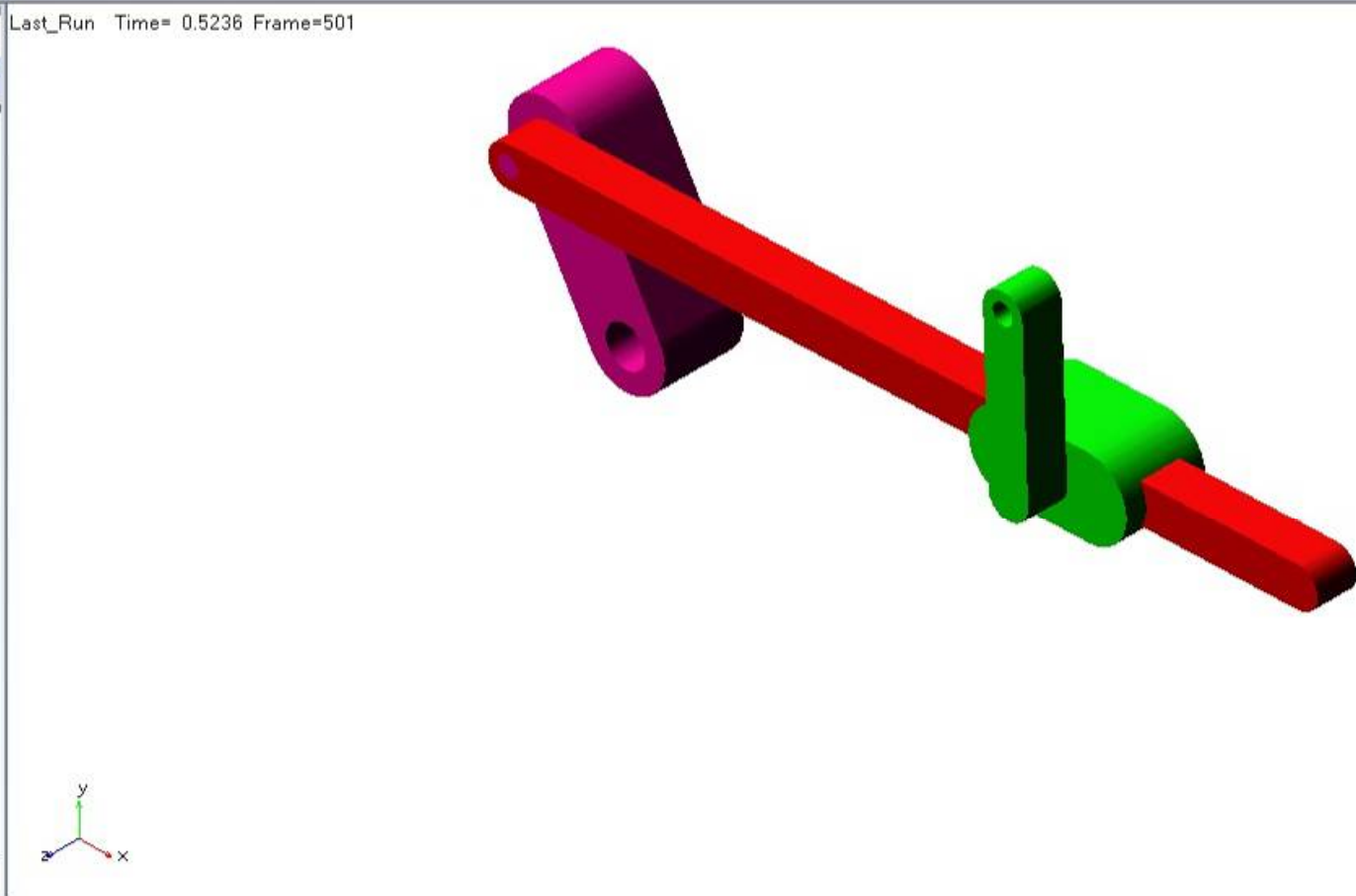
MODEL_1

Last_Run Time= 0.5236 Frame=501

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - LINK_1
 - MARKER_11
 - MARKER_9
 - cm
 - MARKER_2
 - MARKER_1
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



Simulation Control

End Time (2*PI/12)

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Nastran

Update graphics display

Interactive Scripted

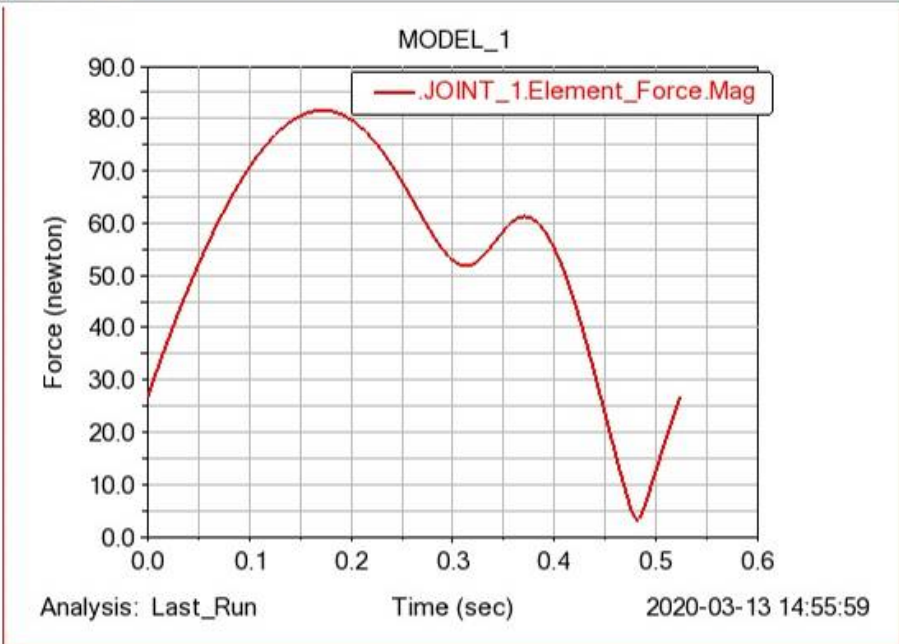
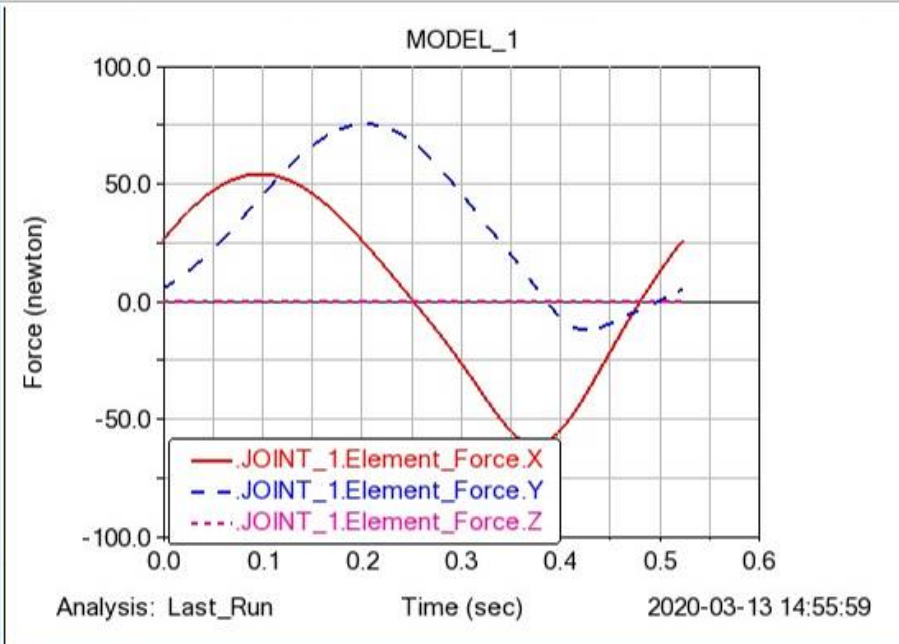
Simulation Settings...



MODEL_1

- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12

Name Filter *



Data | Math

Model	Filter	Object	Characteristic	Component	<input checked="" type="checkbox"/> Surf
MODEL_1	body	+ JOINT_1	Element_Force	X	<input type="button" value="Add Curves"/>
	force	+ JOINT_2	Element_Torque	Y	<input type="button" value="Add Curves To Current Plot"/>
	constraint	+ JOINT_3	Translational_Displacement	Z	<input type="button" value="Clear Plot"/>
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	Independent Axis:
		+ MOTION_1	Translational_Velocity		<input checked="" type="radio"/> Time <input type="radio"/> Data
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

Source: Objects

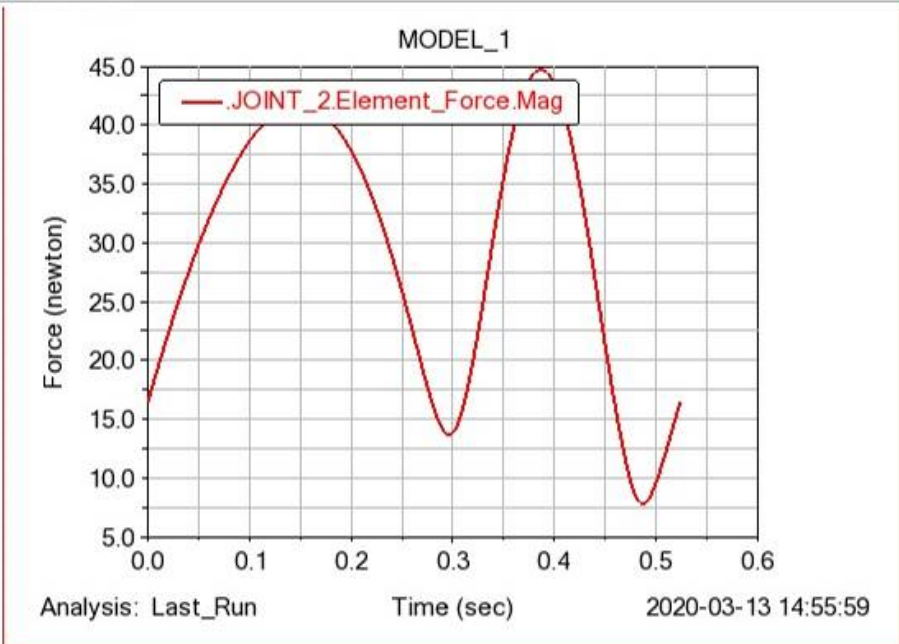
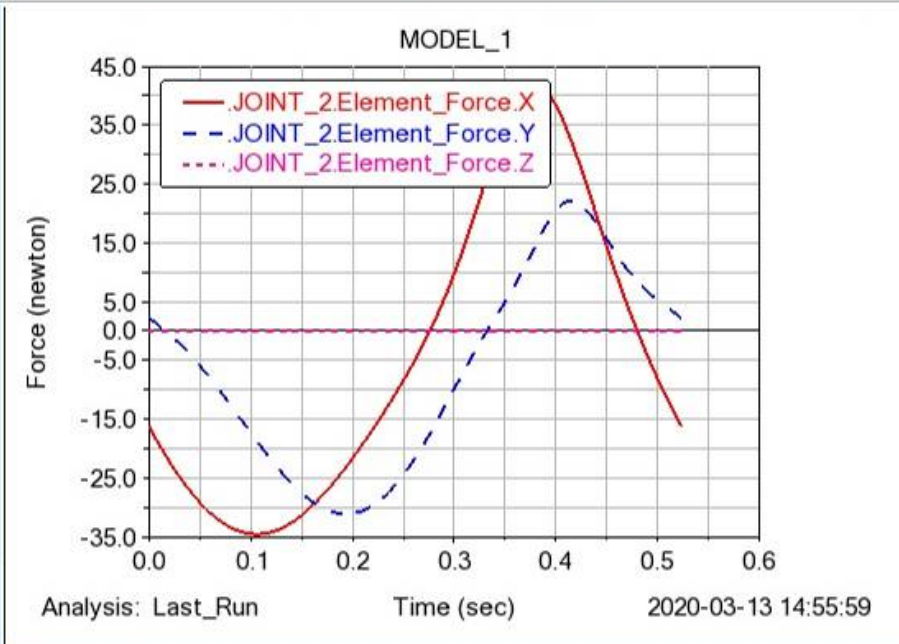
Filter: *



MODEL_1

- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12

Name Filter *



Data | Math

Model	Filter	Object	Characteristic	Component	<input checked="" type="checkbox"/> Surf
.MODEL_1	body	+ JOINT_1	Element_Force	X	<input type="button" value="Add Curves"/>
	force	+ JOINT_2	Element_Torque	Y	<input type="button" value="Add Curves To Current Plot"/>
	constraint	+ JOINT_3	Translational_Displacement	Z	<input type="button" value="Clear Plot"/>
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	Independent Axis:
		+ MOTION_1	Translational_Velocity		<input checked="" type="radio"/> Time <input type="radio"/> Data
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

Source: Objects

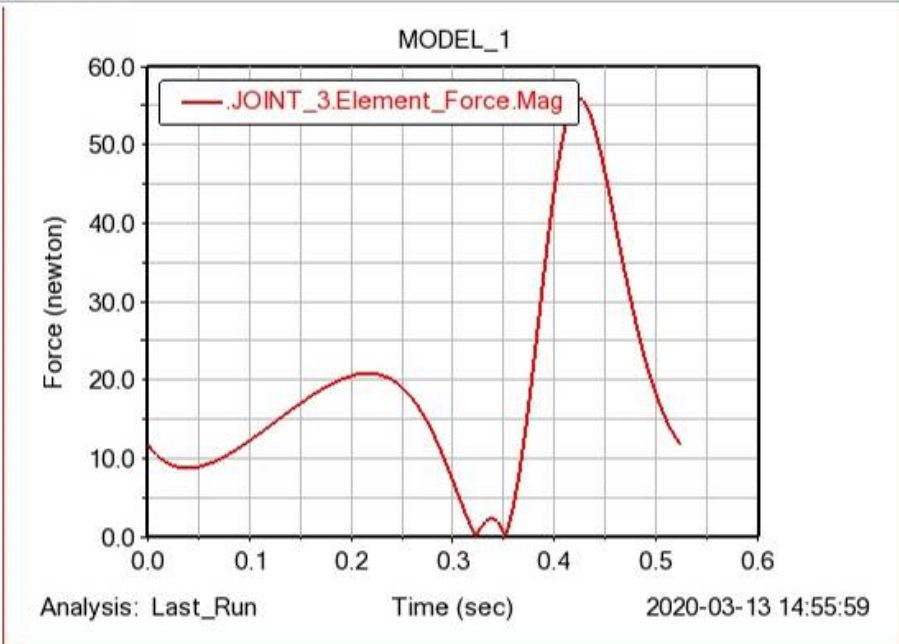
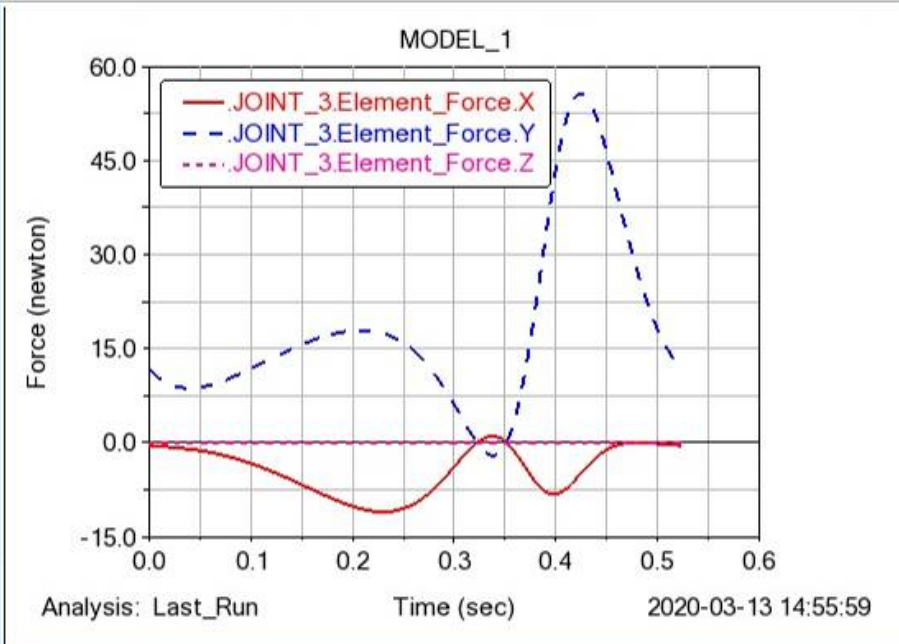
Filter: *



MODEL_1

- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- plot_17
- plot_18
- page_10
- page_11
- page_12

Name Filter *



General | Border | Grid | 2nc

Auto Title Auto Subtitle

Title: MODEL_1

Subtitle:

Axes

Analysis Date Stamp

Legend Zero Line

Dep. Axis: Vertical

Table

Data | Math

Model	Filter	Object	Characteristic	Component	<input checked="" type="checkbox"/> Surf
.MODEL_1	body	+ JOINT_1	Element_Force	X	<input type="checkbox"/>
	force	+ JOINT_2	Element_Torque	Y	<input type="checkbox"/>
	constraint	+ JOINT_3	Translational_Displacement	Z	<input type="checkbox"/>
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	<input checked="" type="checkbox"/>
		+ MOTION_1	Translational_Velocity		<input type="checkbox"/>
			Translational_Acceleration		<input type="checkbox"/>
			Angular_Velocity		<input type="checkbox"/>
			Angular_Acceleration		<input type="checkbox"/>

Source: Objects

Filter: *

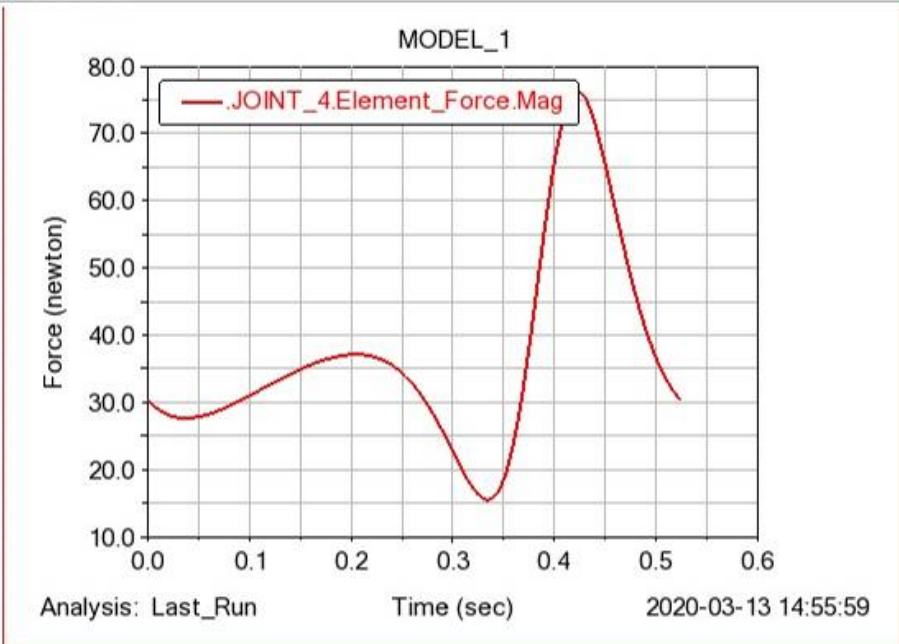
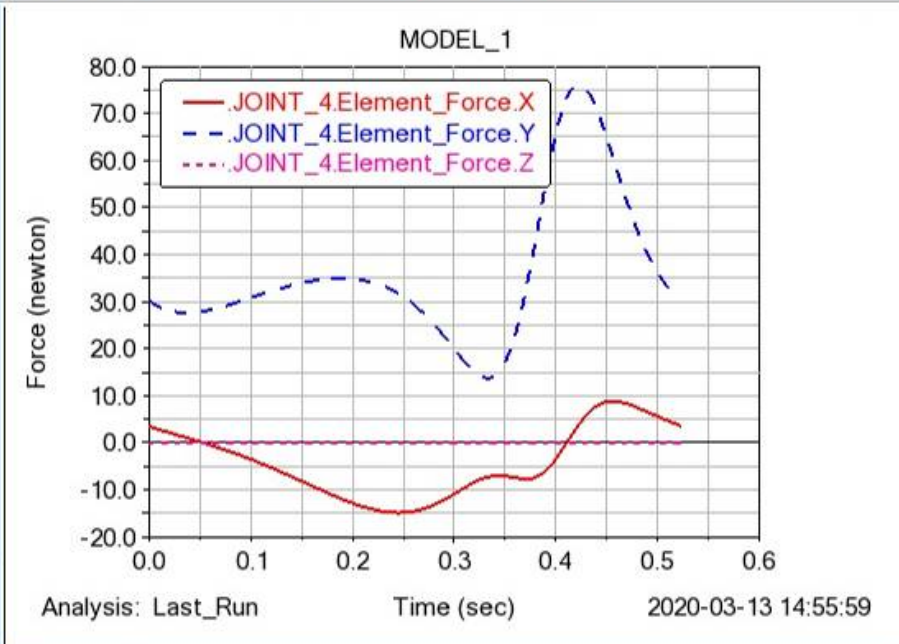
Buttons: Add Curves, Add Curves To Current Plot, Clear Plot

Independent Axis: Time Data



- MODEL_1
- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12

Name Filter *



Data | Math

Model	Filter	Object	Characteristic	Component	<input checked="" type="checkbox"/> Surf
.MODEL_1	body	+ JOINT_1	Element_Force	X	<input type="button" value="Add Curves"/>
	force	+ JOINT_2	Element_Torque	Y	<input type="button" value="Add Curves To Current Plot"/>
	constraint	+ JOINT_3	Translational_Displacement	Z	<input type="button" value="Clear Plot"/>
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	Independent Axis:
		+ MOTION_1	Translational_Velocity		<input checked="" type="radio"/> Time <input type="radio"/> Data
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

Source: Objects

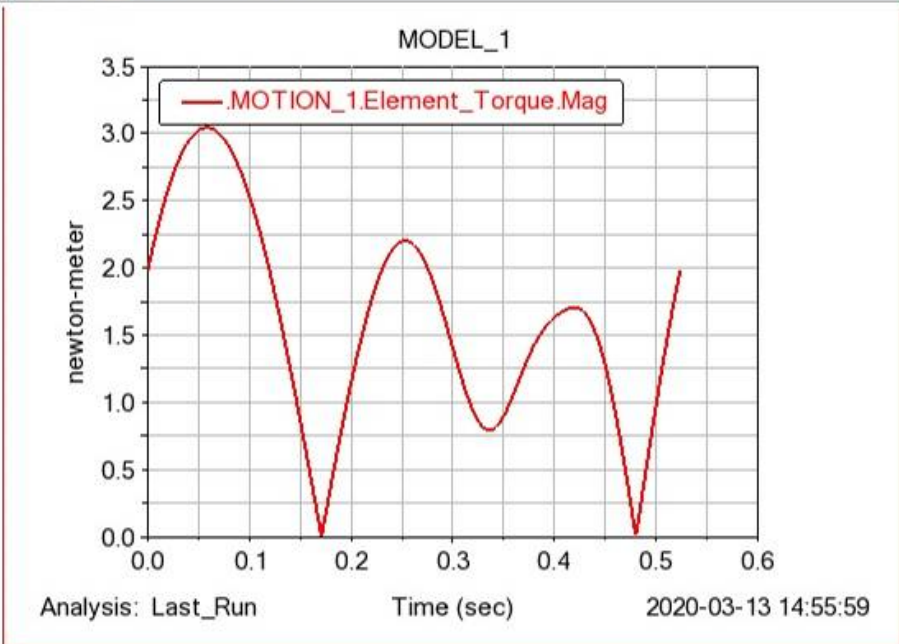
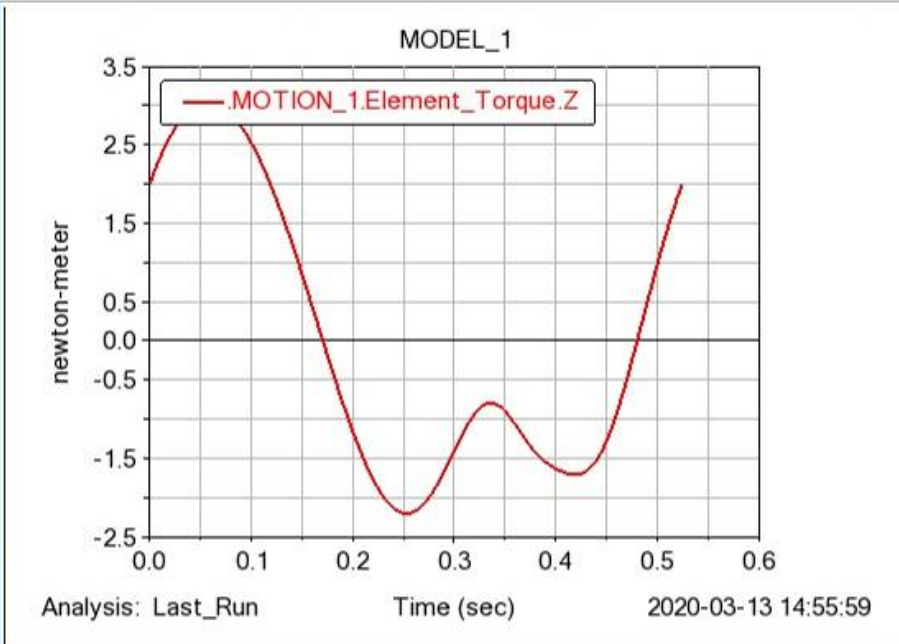
Filter: *



MODEL_1

- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12

Name Filter *



Data | Math |

Model	Filter	Object	Characteristic	Component	<input checked="" type="checkbox"/> Surf
MODEL_1	body	+ JOINT_1	Power_Consumption	X	<input type="button" value="Add Curves"/>
	force	+ JOINT_2	Element_Force	Y	<input type="button" value="Add Curves To Current Plot"/>
	constraint	+ JOINT_3	Element_Torque	Z	<input type="button" value="Clear Plot"/>
		+ JOINT_4	Translational_Displacement	Mag	Independent Axis:
		+ MOTION_1	Translational_Velocity		<input checked="" type="radio"/> Time <input type="radio"/> Data
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

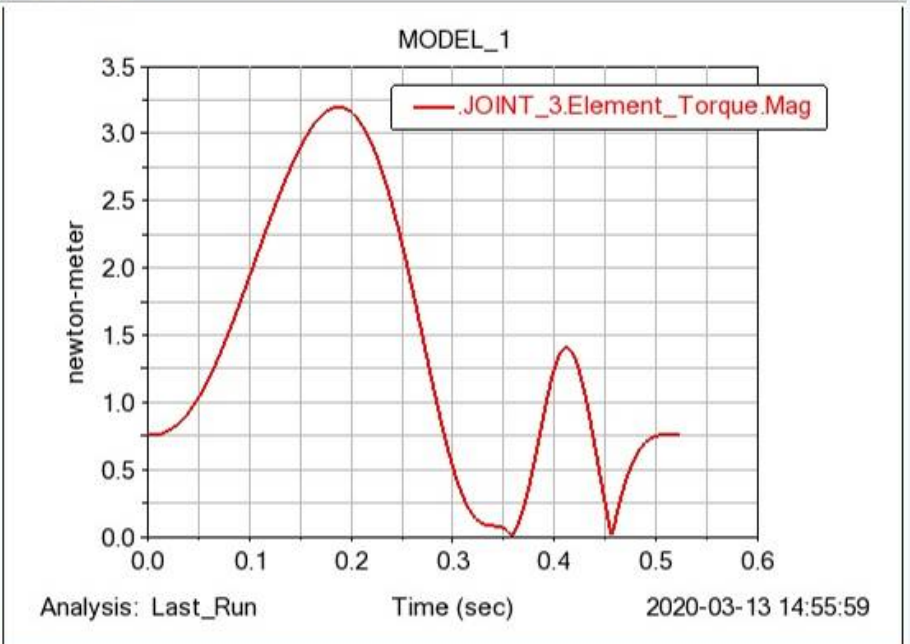
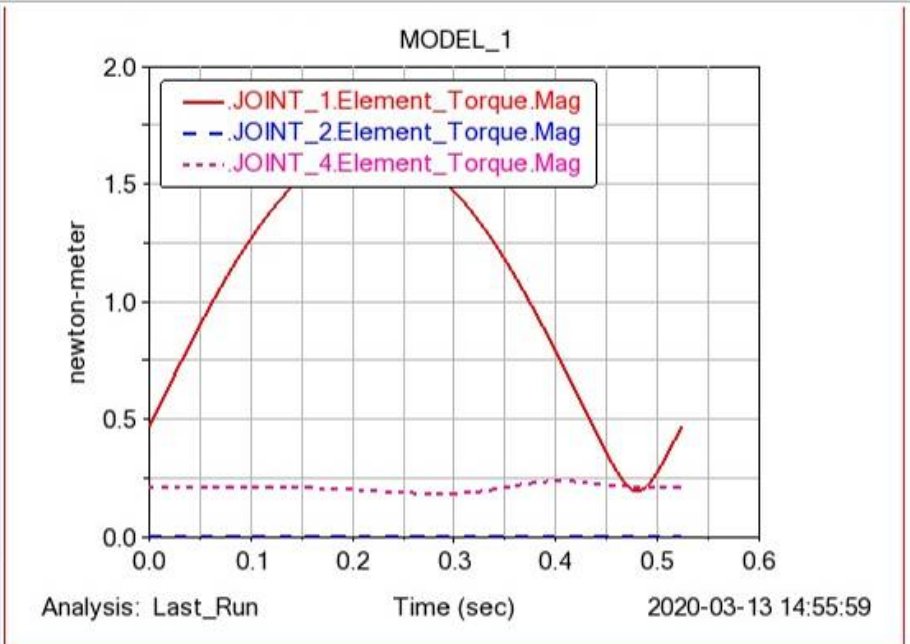
Source: Objects

Filter: *

Plotting

- MODEL_1
- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12

Name Filter *



Data | Math

Model	Filter	Object	Characteristic	Component	<input checked="" type="checkbox"/> Surf
MODEL_1	body	+ JOINT_1	Element_Force	X	Add Curves
	force	+ JOINT_2	Element_Torque	Y	
	constraint	+ JOINT_3	Translational_Displacement	Z	Add Curves To Current Plot
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	Clear Plot
		+ MOTION_1	Translational_Velocity		Independent Axis:
			Translational_Acceleration		<input checked="" type="radio"/> Time <input type="radio"/> Data
			Angular_Velocity		
			Angular_Acceleration		

Source: Objects

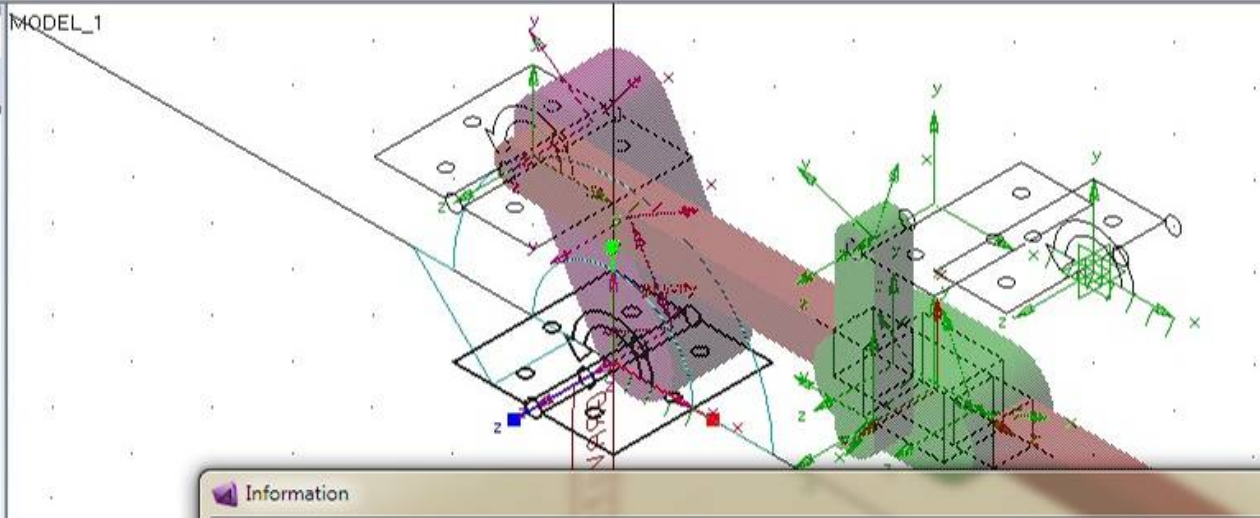
Filter: *

Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2
 - JOINT_1
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Information

Apply Parent Children Modify Verbose 6 Levels Clear Read from File Save to File Close

Object Name : .MODEL_1.JOINT_1
Object Type : Revolute Joint
Parent Type : Model
Adams ID : 1
Active : NO OPINION
I Marker : .MODEL_1.PART_2.MARKER_9
J Marker : .MODEL_1.ground.MARKER_10

Initial Conditions
Angular Displacement : NOT SET
Angular Velocity : NOT SET

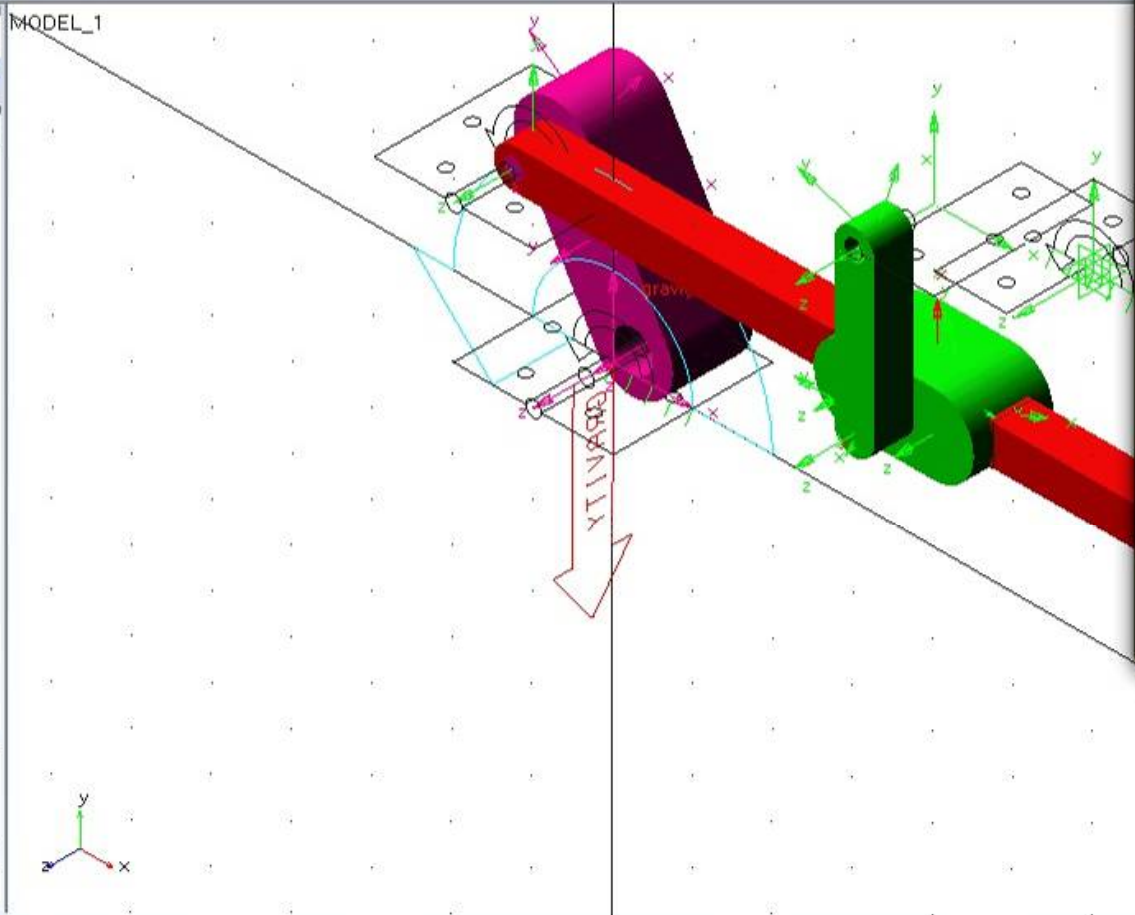
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - LINK_1
 - MARKER_11
 - MARKER_9
 - cm
 - MARKER_2
 - MARKER_1
 - ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2
 - JOINT_1
- Motions
- Forces
- Elements
- Measures

Search



Marker Modify

Name	.MODEL_1.PART_2.MARKER_9
Location	0.0, 0.0, 0.0
Location Relative To	.MODEL_1
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	0.0, 0.0, 0.0
Orientation Relative To	.MODEL_1
Solver ID	9

OK Apply Close

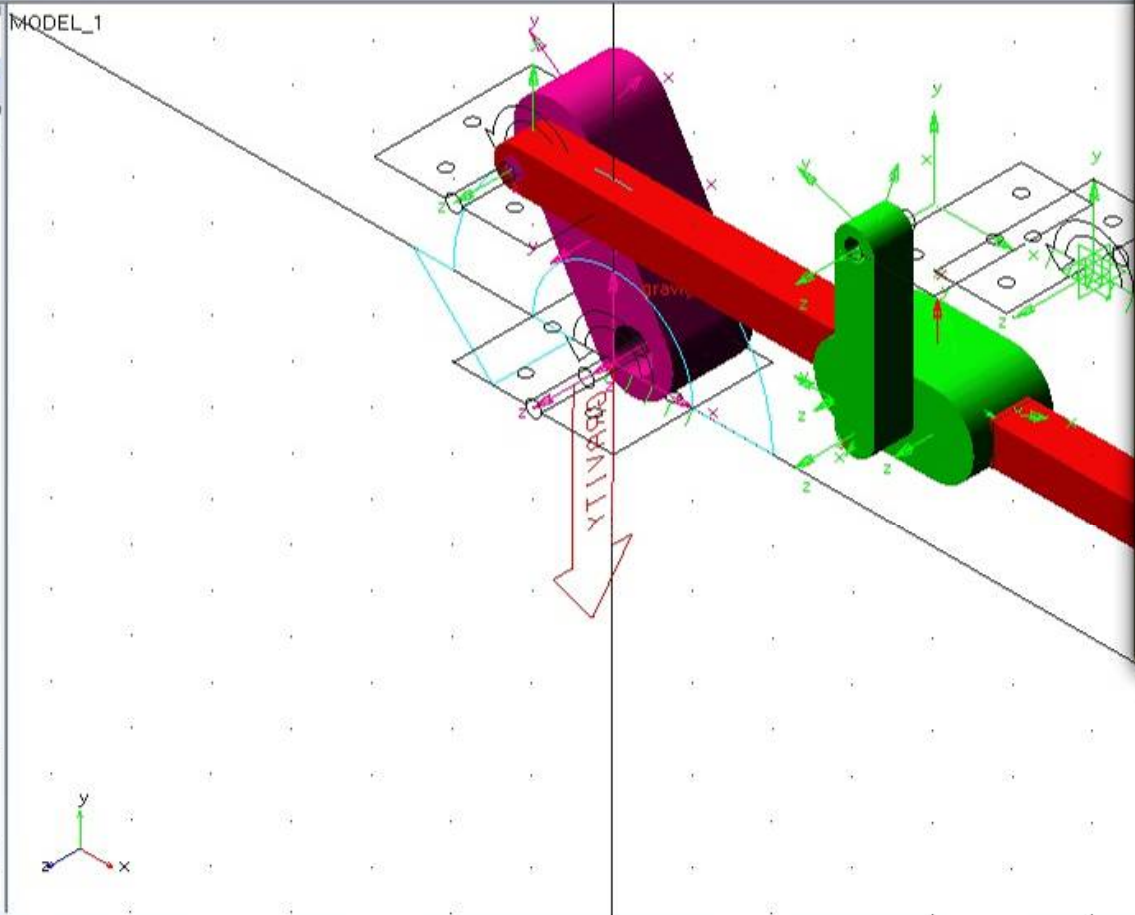
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - LINK_1
 - MARKER_11
 - MARKER_9
 - cm
 - MARKER_2
 - MARKER_1
- ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2
 - JOINT_1
- Motions
- Forces
- Elements
- Measures

Search



Marker Modify

Name	.MODEL_1.PART_2.MARKER_9
Location	0.0,0.0,(-5.0E-02 + 2.5E-02) / 2)
Location Relative To	.MODEL_1
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	0.0, 0.0, 0.0
Orientation Relative To	.MODEL_1
Solver ID	9

OK Apply Close

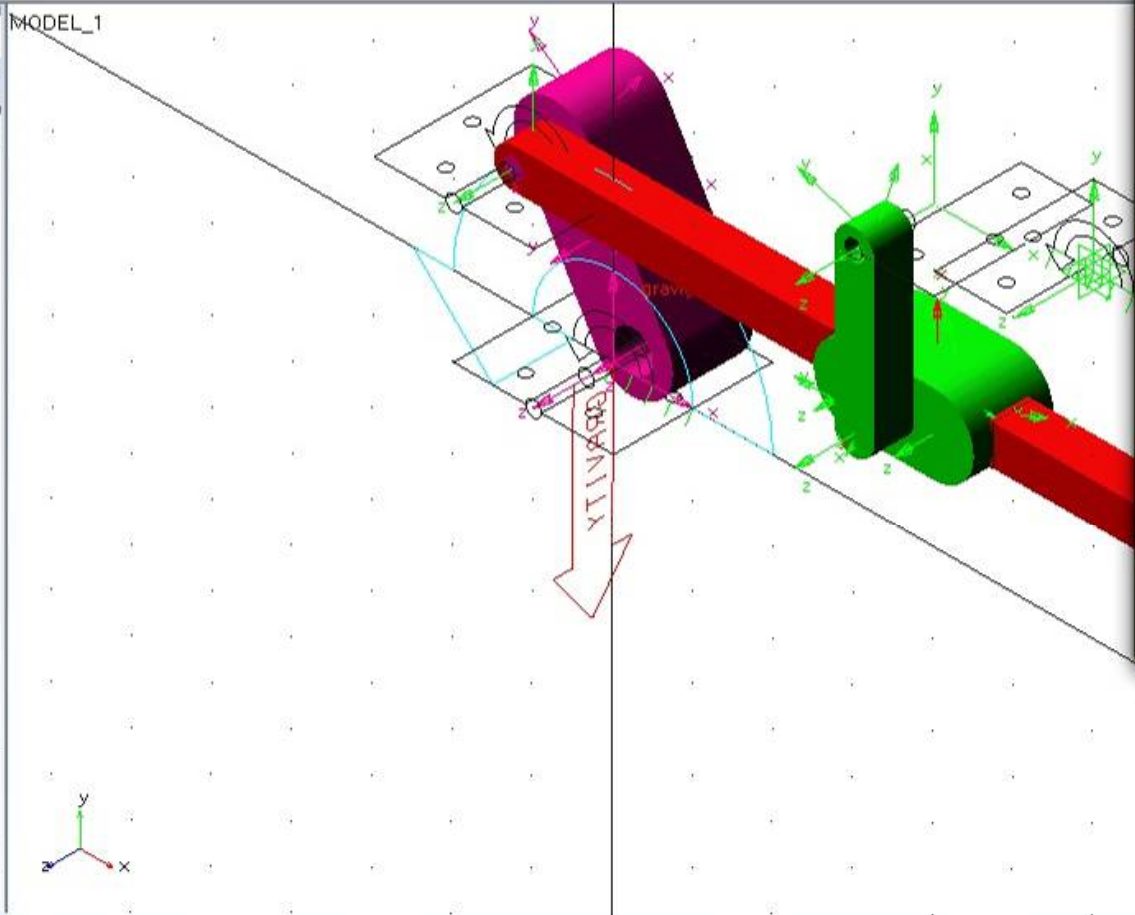
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - LINK_1
 - MARKER_11
 - MARKER_9
 - cm
 - MARKER_2
 - MARKER_1
 - ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2
 - JOINT_1
- Motions
- Forces
- Elements
- Measures

Search



Marker Modify

Name: .MODEL_1.ground.MARKER_10

Location: 0.0,0.0,(-5.0E-02 + 2.5E-02) / 2

Location Relative To: .MODEL_1

Curve: [Empty]

Curve Reference Marker: [Empty]

Tangent Velocity: X [] Y [] Z []

Orientation: 0.0, 0.0, 0.0

Orientation Relative To: .MODEL_1

Solver ID: 10

OK Apply Close

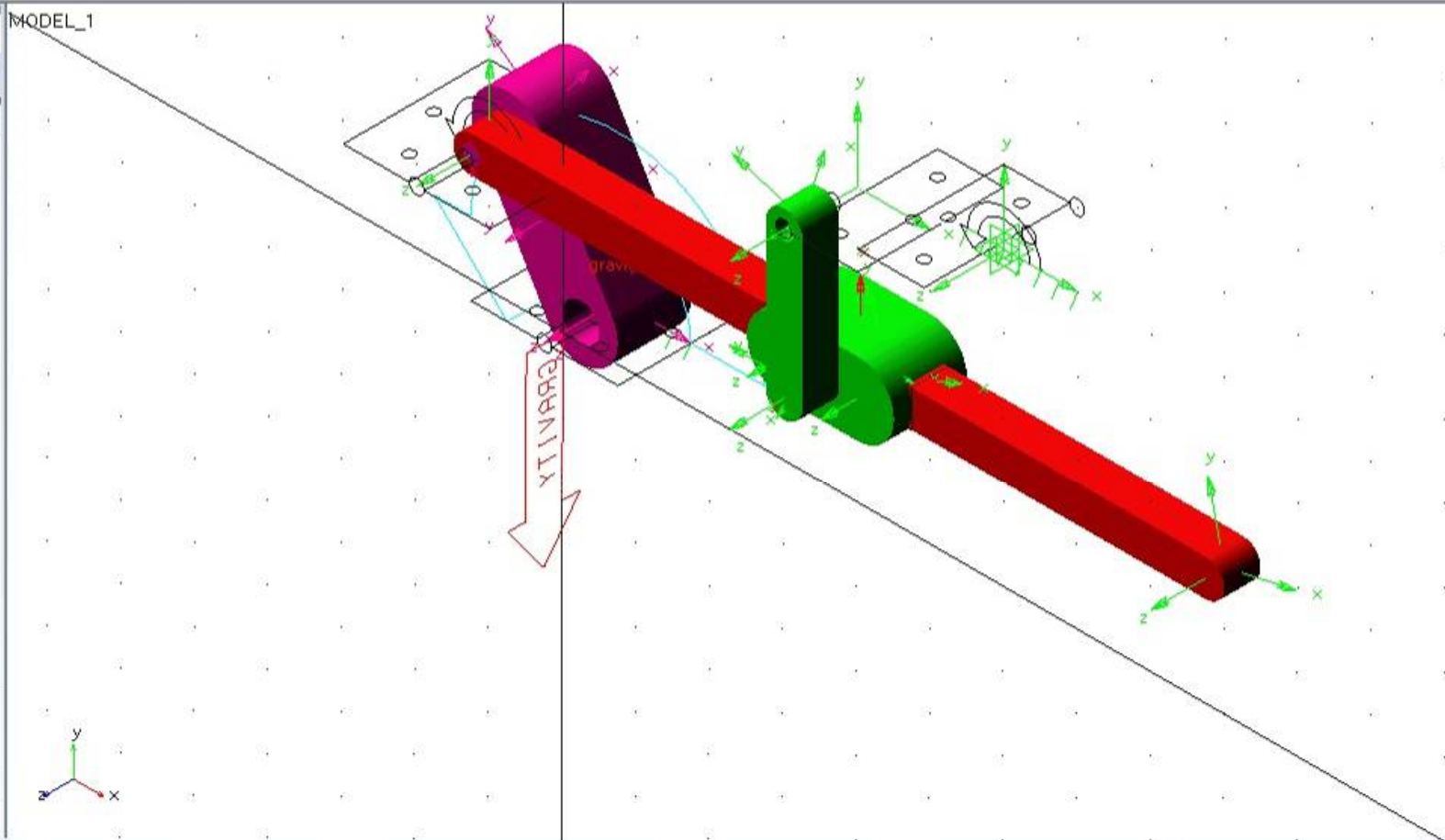
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - PART_2
 - LINK_1
 - MARKER_11
 - MARKER_9
 - cm
 - MARKER_2
 - MARKER_1
 - ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2
 - JOINT_1
- Motions
- Forces
- Elements
- Measures

Search

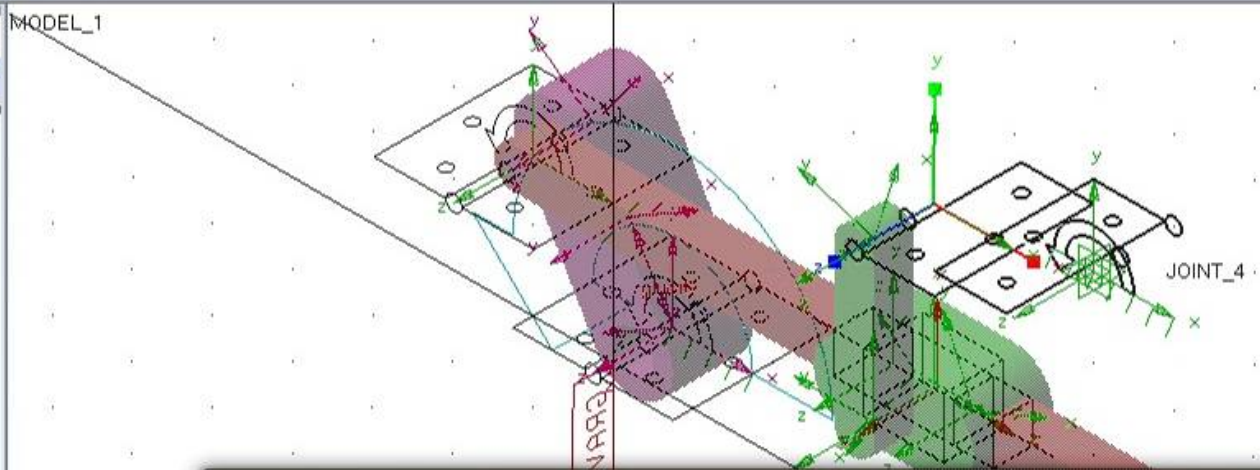


Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2
 - JOINT_1
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Information

Apply Parent Children Modify Verbose 6 Levels Clear Read from File Save to File Close

Object type : revolute joint
Parent Type : Model
Adams ID : 4
Active : NO OPINION
I Marker : .MODEL_1.PART_4.MARKER_15
J Marker : .MODEL_1.ground.MARKER_16
Initial Conditions
Angular Displacement : NOT SET
Angular Velocity : NOT SET

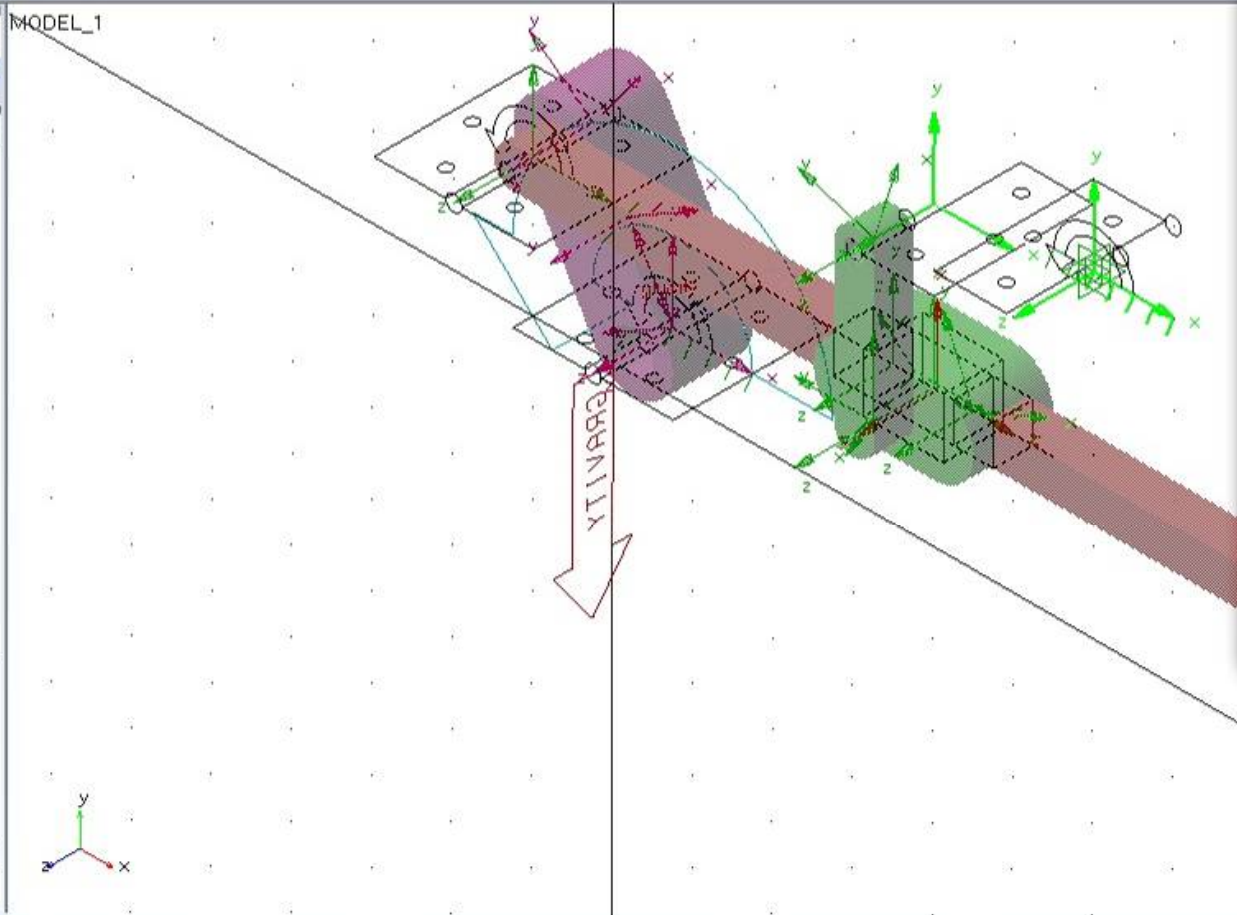
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2

Search



Marker Modify

Name	.MODEL_1.PART_4.MARKER_15
Location	0.2, 0.1866025404, 0.0
Location Relative To	.MODEL_1
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	0.0, 0.0, 0.0
Orientation Relative To	.MODEL_1
Solver ID	15

OK Apply Close

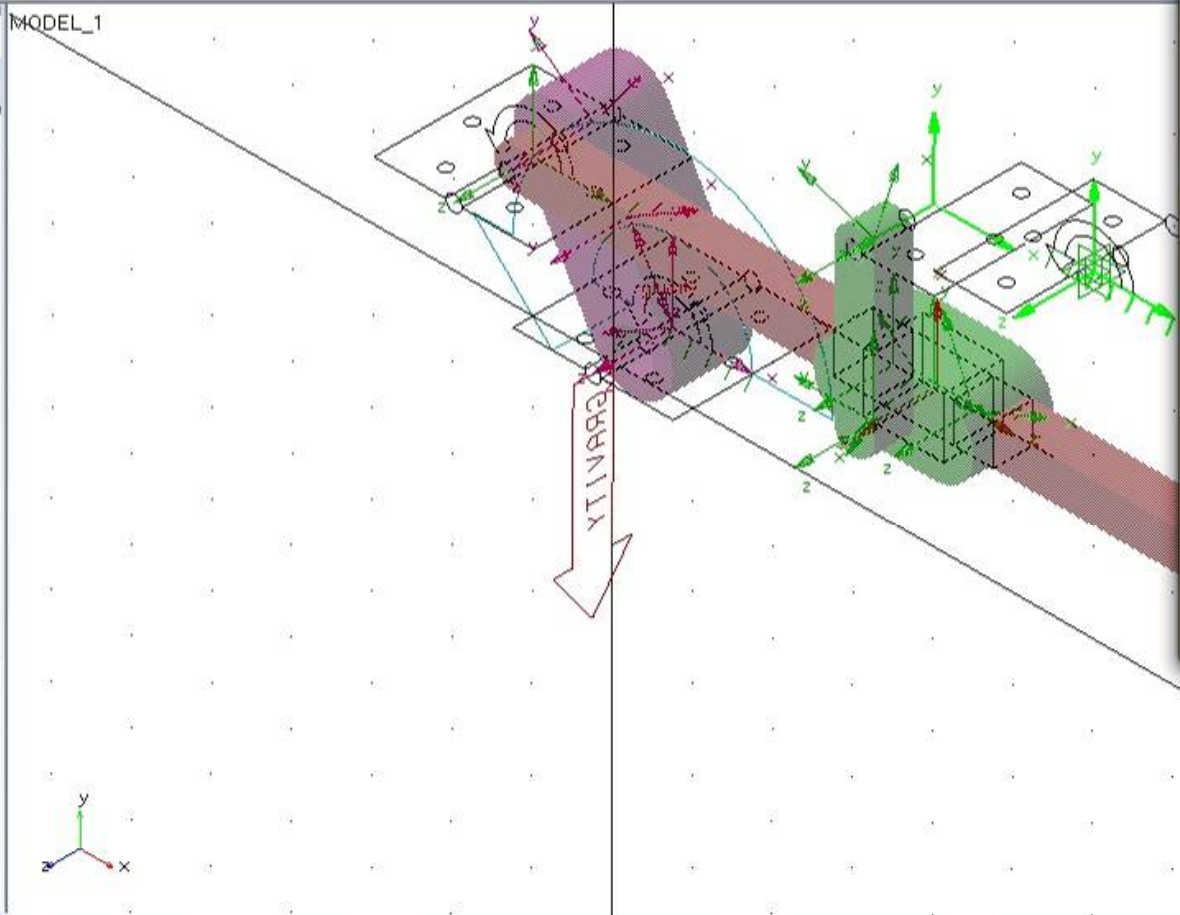
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2

Search



Marker Modify

Name	MODEL_1.PART_4.MARKER_15
Location	0.2, 0.1866025404, ((5.0E-02 + 2.5E-02) / 2)
Location Relative To	MODEL_1
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	0.0, 0.0, 0.0
Orientation Relative To	MODEL_1
Solver ID	15

OK Apply Close

Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2

Search

Table Editor for Points in .MODEL_1

Apply OK

	Loc_X	Loc_Y	Loc_Z
POINT_5	0.3	0.2	$((5.0E-02 + 2.5E-02) / 2)$

Parts Markers Points Joints Forces Motions Variables

Create Filters... Sorting... Write Reload

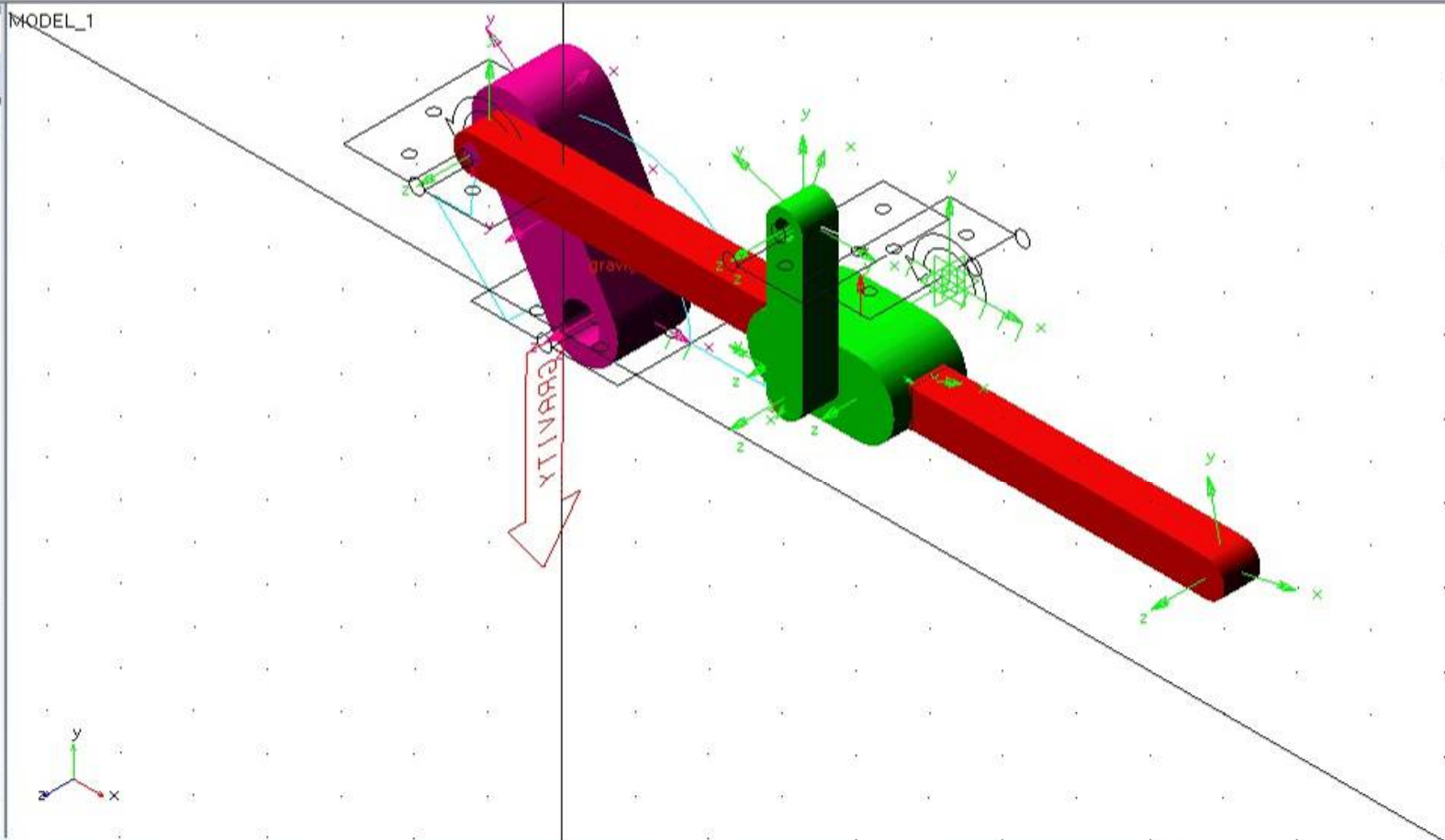
Setup Simulate

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2

Search



Setup Simulate

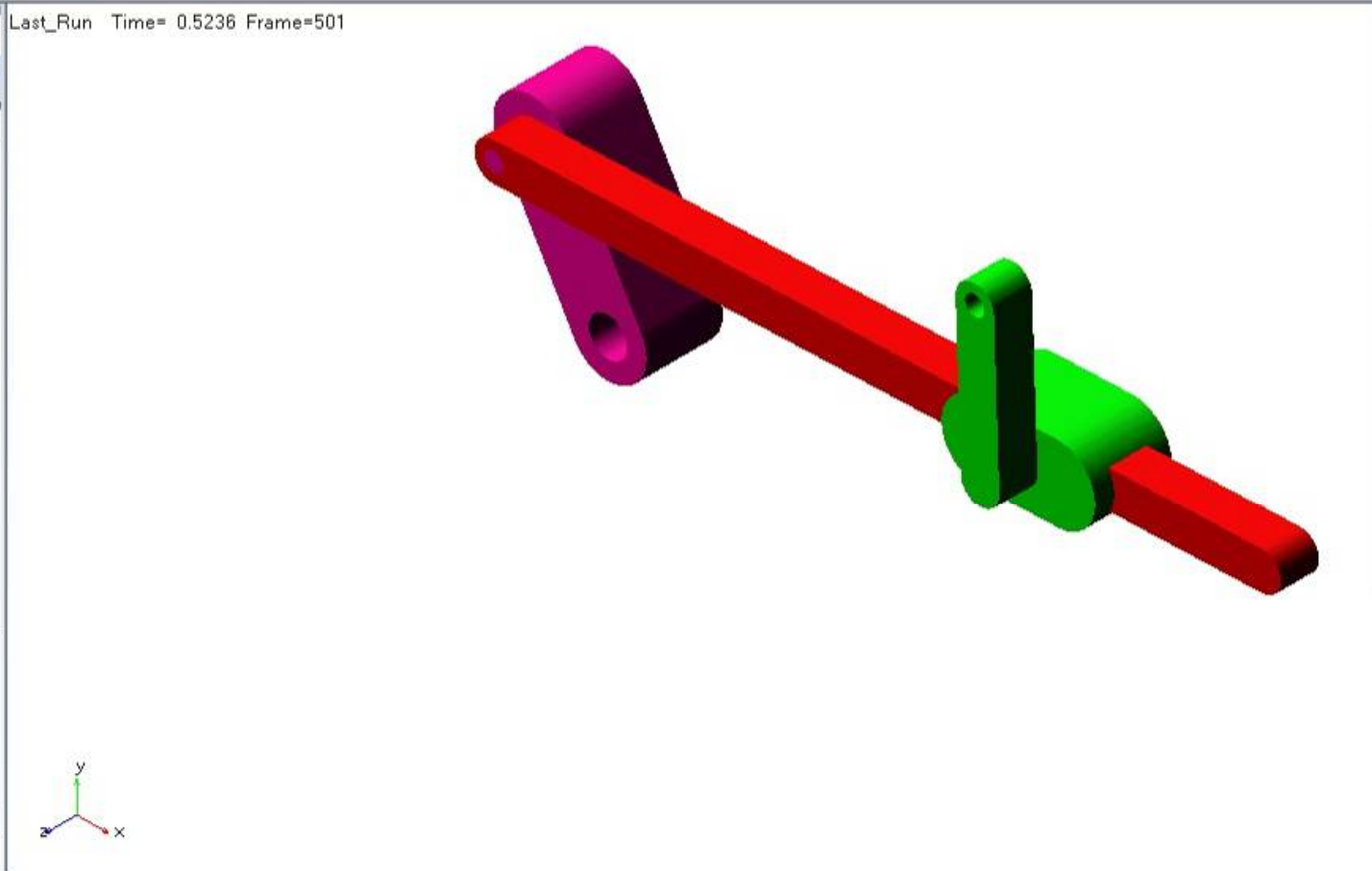
MODEL_1

Last_Run Time= 0.5236 Frame=501

Browse Groups Filters

- Bodies
 - PART_4
 - CSG_15
 - LINK_3
 - MARKER_22
 - MARKER_21
 - MARKER_15
 - MARKER_14
 - MARKER_8
 - MARKER_7
 - cm
 - MARKER_6
 - MARKER_5
 - PART_3
 - PART_2
 - ground
 - GCURVE_6
 - POINT_5
 - MARKER_20
 - MARKER_16
 - MARKER_10
- Connectors
 - JOINT_4
 - JOINT_3
 - JOINT_2

Search



Simulation Control

End Time (2*PI/12)

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Update graphics display

Interactive Scripted

Simulation Settings...

- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12
- plot_23
 - analysis
 - date
 - title
 - curve_1
 - curve_2
 - curve_3
 - haxis
 - vaxis
 - legend_object

Name Filter *

Display
 Borderline
 Background

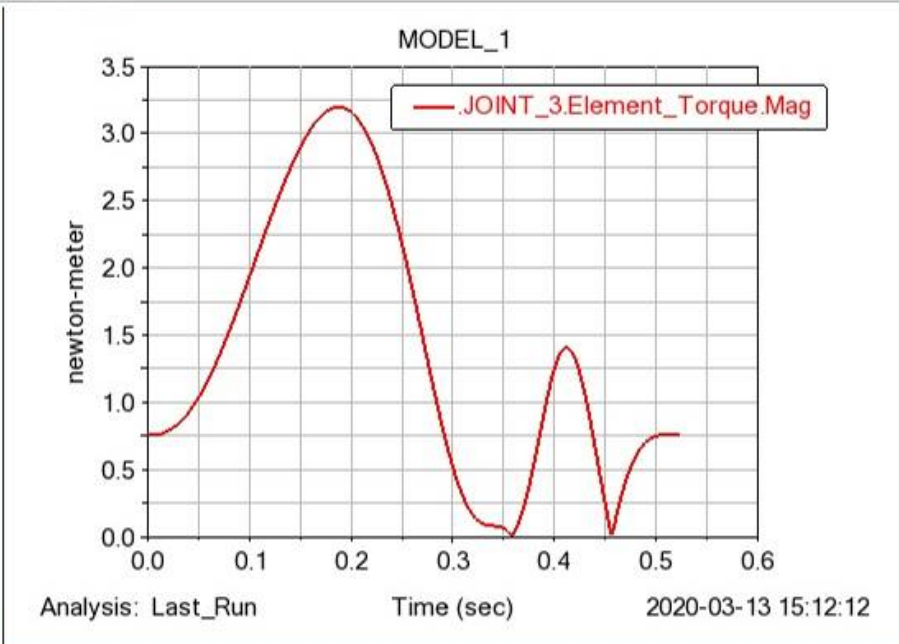
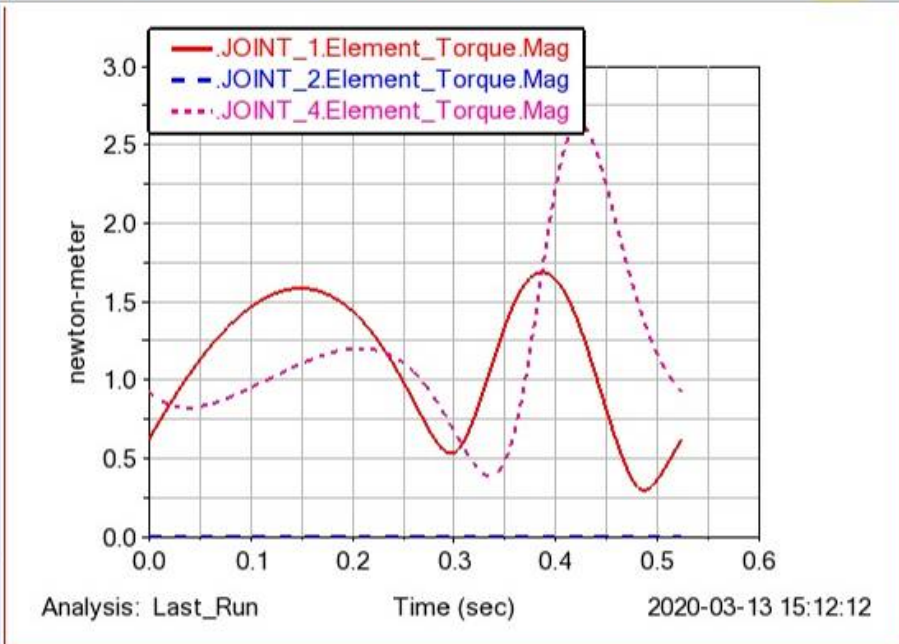
Placement: Top Left

Font Size: 9

Line Color: Black

Line Style: Solid Line

Line Weight: 1



Model	Filter	Object	Characteristic	Component	Surf
MODEL_1	body	+ JOINT_1	Element_Force	X	<input checked="" type="checkbox"/>
	force	+ JOINT_2	Element_Torque	Y	
	constraint	+ JOINT_3	Translational_Displacement	Z	
		+ JOINT_4	Ax_Ay_Az_Projection_Angles	Mag	
		+ MOTION_1	Translational_Velocity		
			Translational_Acceleration		
			Angular_Velocity		
			Angular_Acceleration		

Source: Objects

Filter: *

Independent Axis: Time Data

Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - LINK_2
 - MARKER_13
 - MARKER_12
 - cm
 - MARKER_4**
 - MARKER_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search

MODEL_1

The image shows a 3D CAD model of a mechanical assembly. A red cylindrical link is connected to a purple component. A coordinate system with x, y, and z axes is visible. A marker is placed on the link. The background is a grid.

Marker Modify

Name: MODEL_1.PART_3.MARKER_4

Location: (LOC_RELATIVE_TO({0.5, 0.0, 0.0}), MARKE

Location Relative To: MODEL_1.PART_3

Curve: [Empty]

Curve Reference Marker: [Empty]

Tangent Velocity: X Y Z

Orientation: 12.7782316114, 0.0, 0.0

Orientation Relative To: .MODEL_1

Solver ID: 4

OK Apply Close

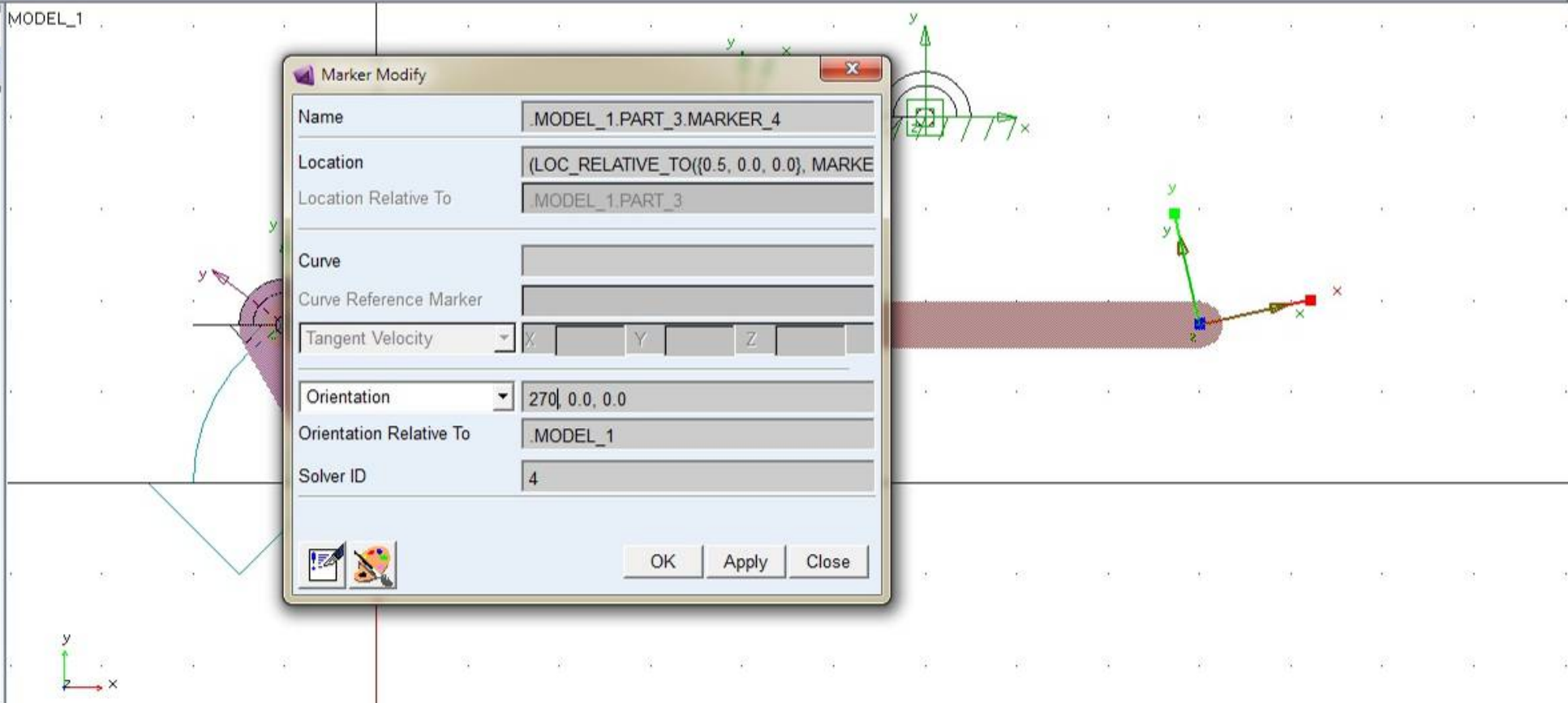
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - LINK_2
 - MARKER_13
 - MARKER_12
 - cm
 - MARKER_4**
 - MARKER_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



Marker Modify

Name: MODEL_1.PART_3.MARKER_4

Location: (LOC_RELATIVE_TO({0.5, 0.0, 0.0}), MARKE

Location Relative To: MODEL_1.PART_3

Curve: [Empty]

Curve Reference Marker: [Empty]

Tangent Velocity: X Y Z

Orientation: 270 0.0, 0.0

Orientation Relative To: .MODEL_1

Solver ID: 4

OK Apply Close

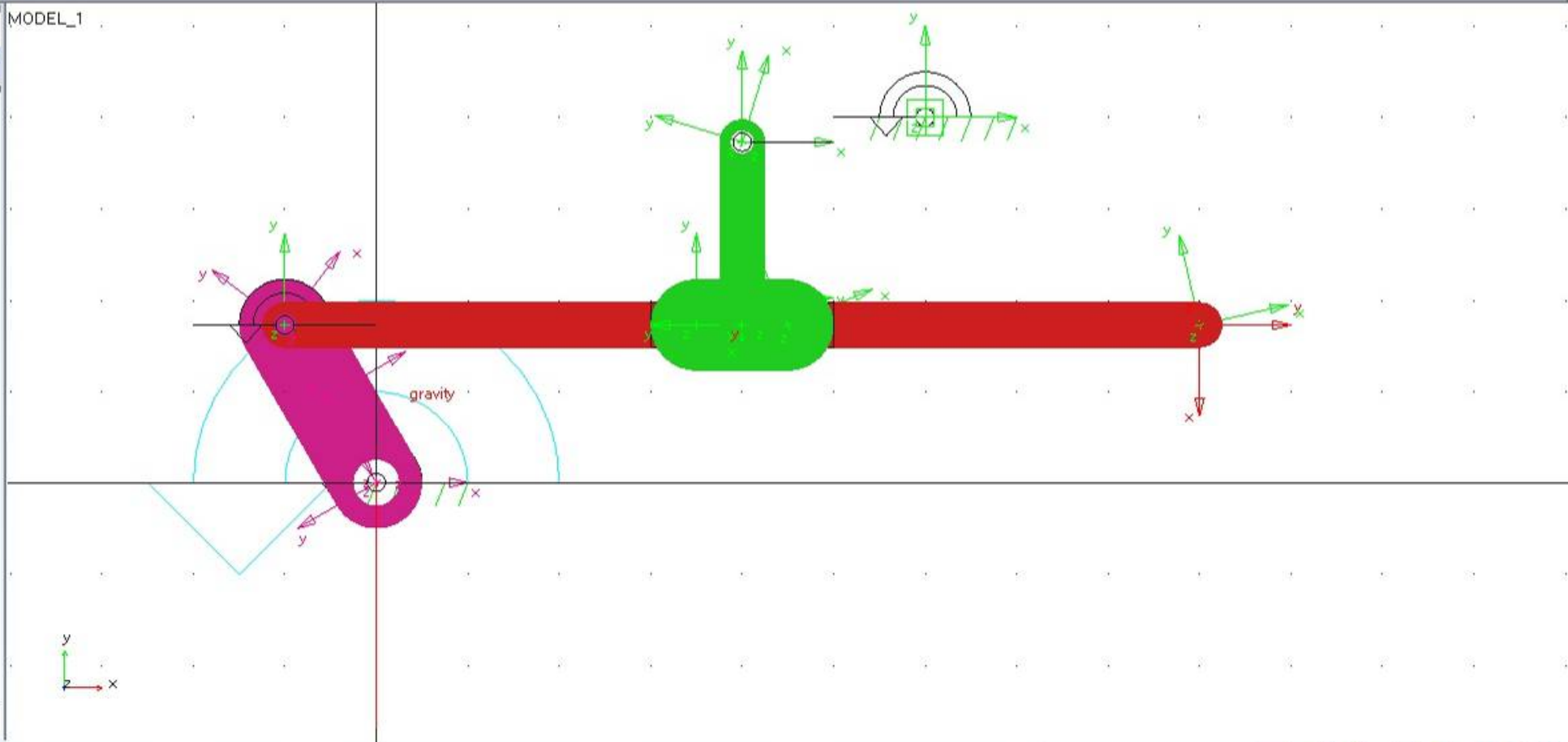
Review Postprocessor

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - LINK_2
 - MARKER_13**
 - MARKER_12
 - cm
 - MARKER_4
 - MARKER_3
 - PART_2
 - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



Apply Force (Single-Component) Applied Force

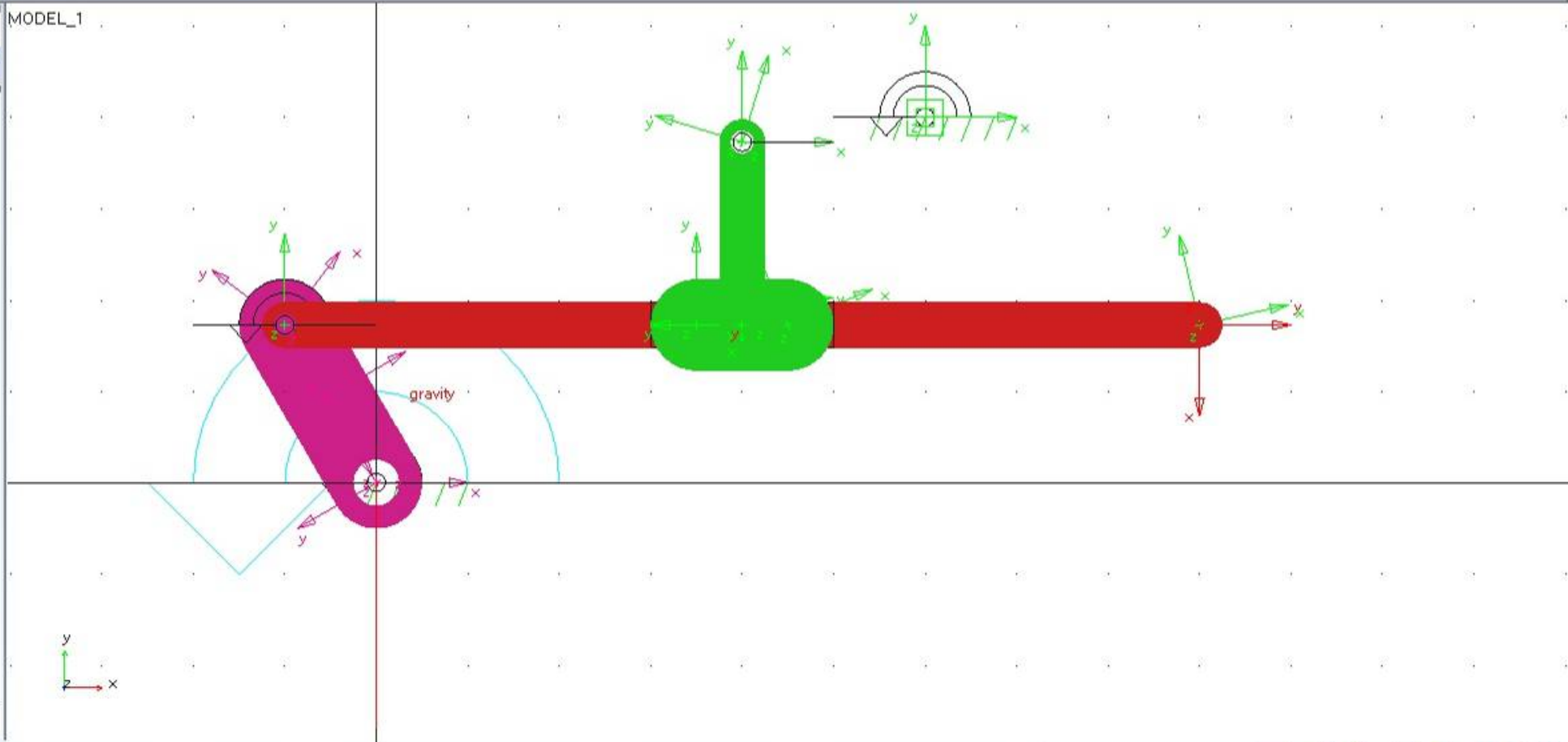
Applied Forces Flexible Connections Special Forces

MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - LINK_2
 - MARKER_13
 - MARKER_12
 - cm
 - MARKER_4
 - MARKER_3
 - PART_2
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



Applied Forces | Flexible Connections (8x8) | Special Forces

Force

Run-time Direction:
Space Fixed

(React on Ground)

Construction:
Pick Feature

Characteristic:
Constant

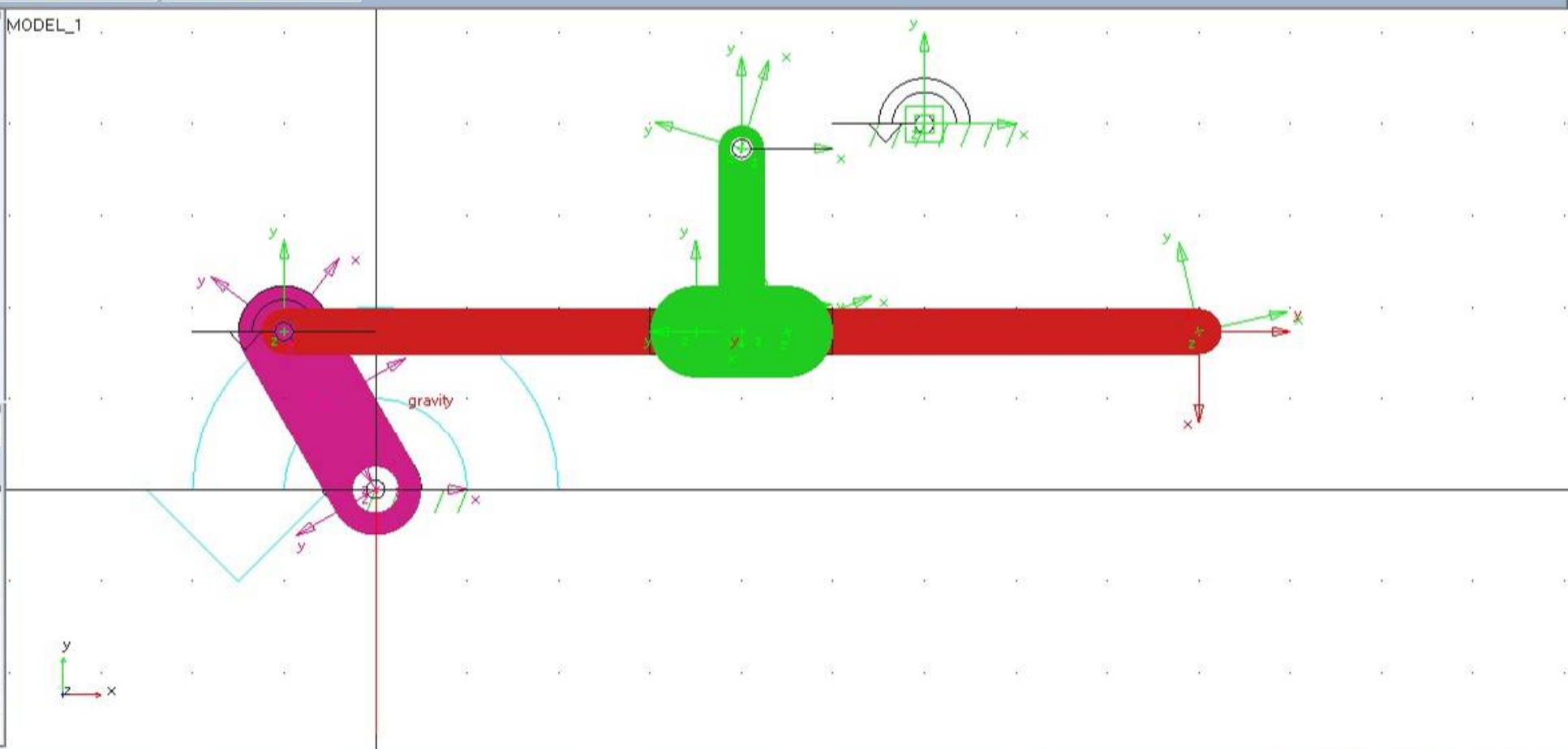
Force 1000

MODEL_1

Browse Groups Filters

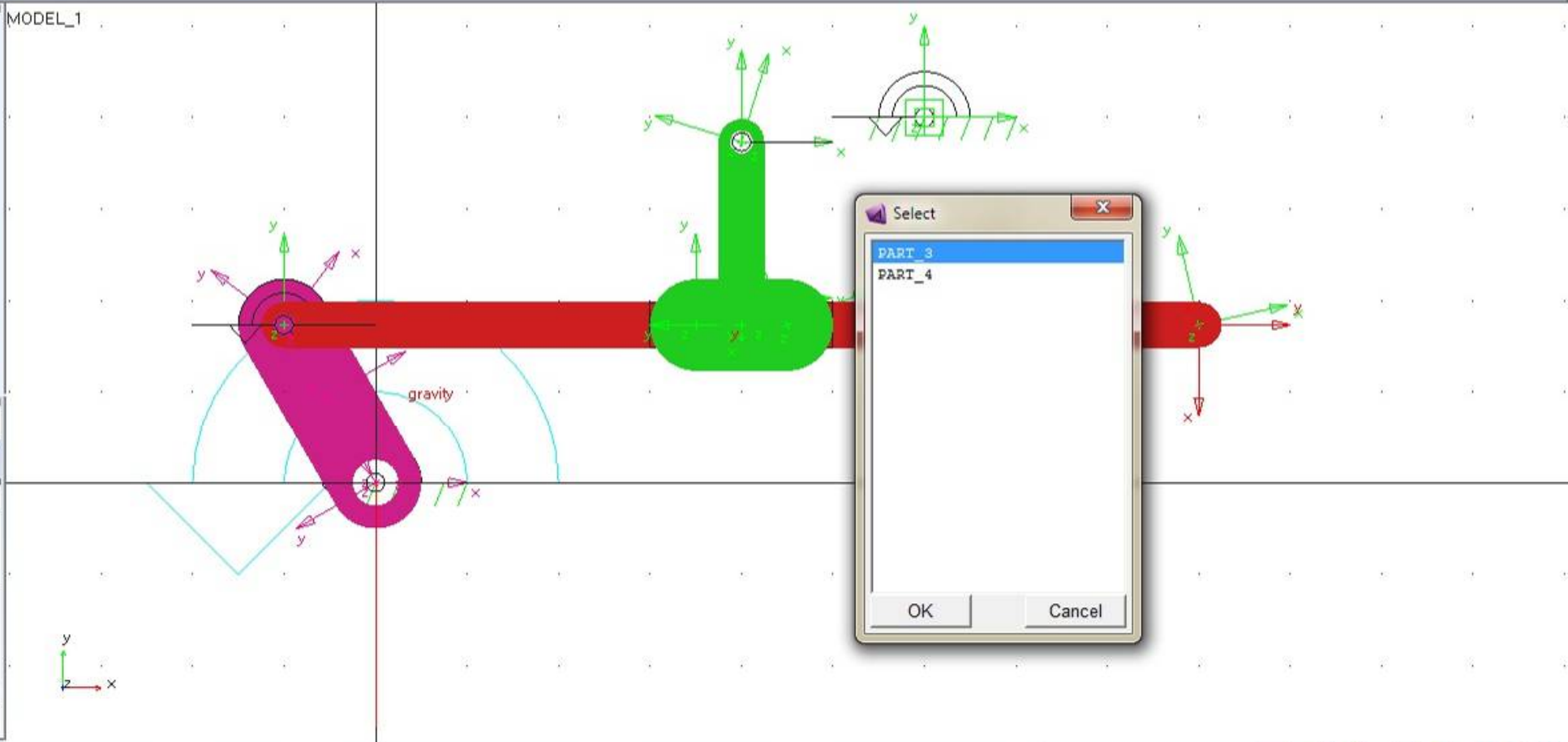
- Bodies
 - PART_4
 - PART_3
 - LINK_2
 - MARKER_13
 - MARKER_12
 - cm
 - MARKER_4
 - MARKER_3

Search



Applied Forces Flexible Connections Special Forces

Force
Run-time Direction: Space Fixed
(React on Ground)
Construction: Pick Feature
Characteristic: Constant
Force 1000
MODEL_1
Browse Groups Filters
Bodies
PART_4
PART_3
LINK_2
MARKER_13
MARKER_12
cm
MARKER_4
MARKER_3
Search



Select
PART_3
PART_4
OK Cancel

Applied Forces Flexible Connections Special Forces

Force

Run-time Direction:
Space Fixed

(React on Ground)

Construction:
Pick Feature

Characteristic:
Constant

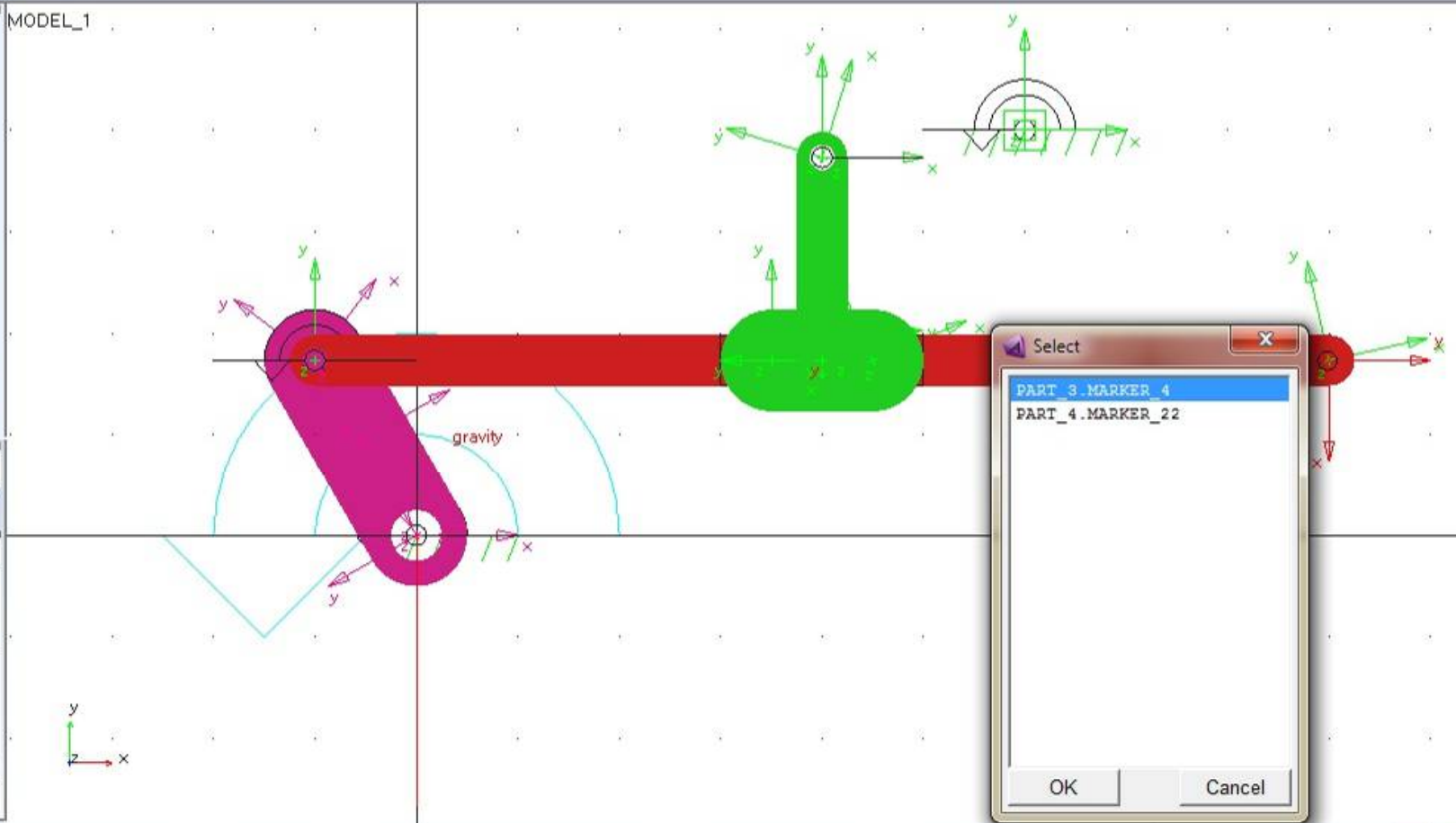
Force 1000

.MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - LINK_2
 - MARKER_13
 - MARKER_12
 - cm
 - MARKER_4
 - MARKER_3

Search



Applied Forces Flexible Connections Special Forces

Force

Run-time Direction:
Space Fixed

(React on Ground)

Construction:
Pick Feature

Characteristic:
Constant

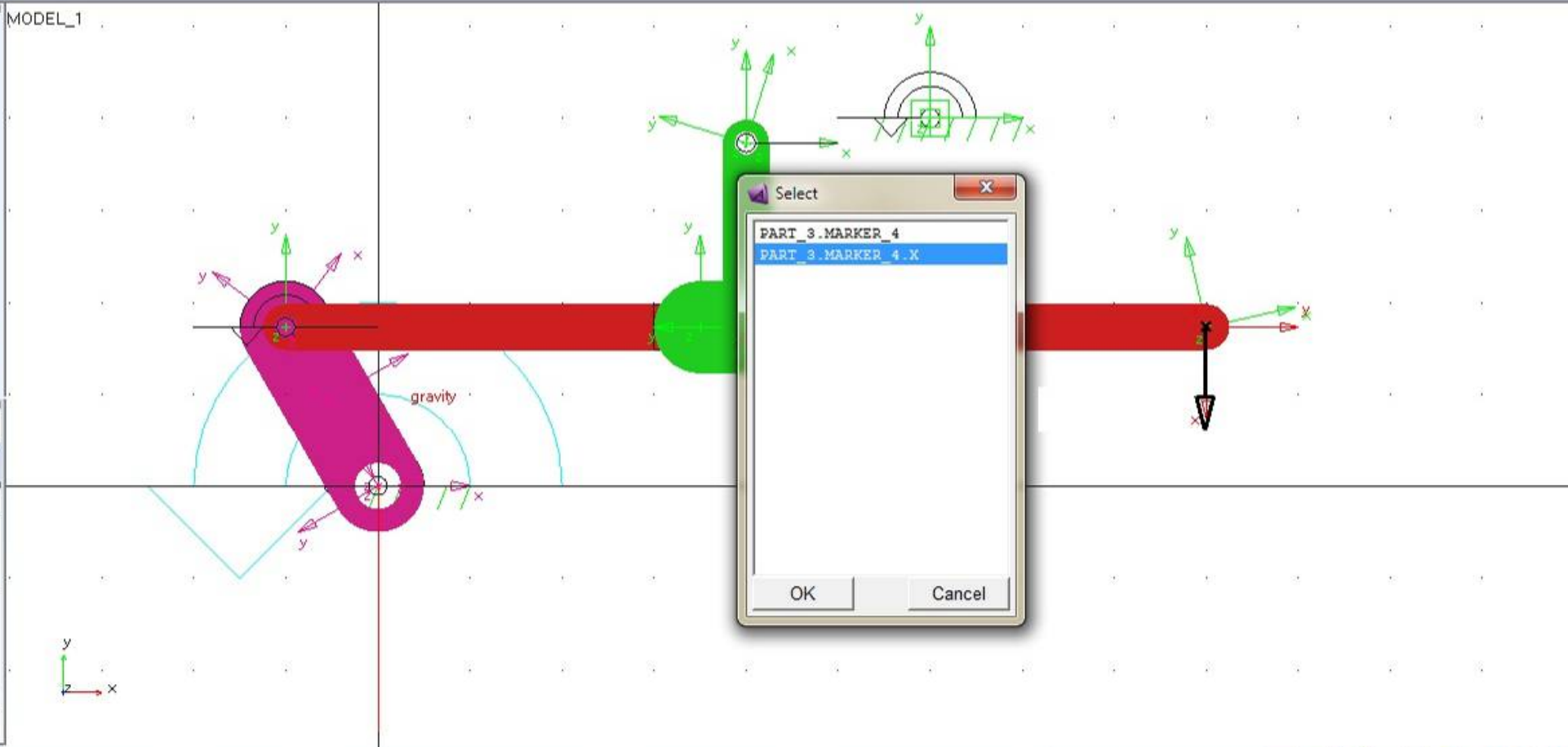
Force 1000

.MODEL_1

Browse Groups Filters

- Bodies
 - PART_4
 - PART_3
 - LINK_2
 - MARKER_13
 - MARKER_12
 - cm
 - MARKER_4
 - MARKER_3

Search



Select

- PART_3.MARKER_4
- PART_3.MARKER_4.X

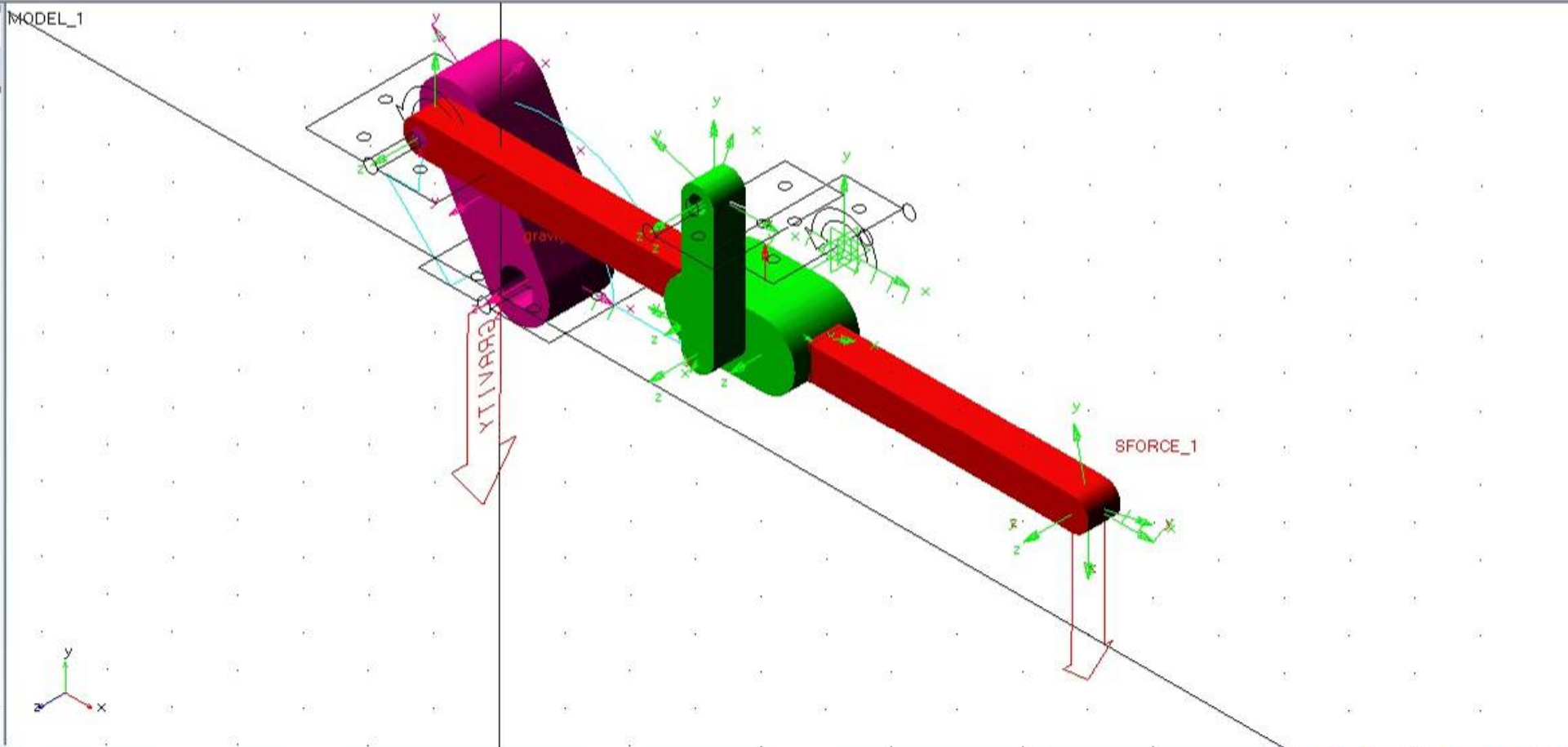
OK Cancel

Applied Forces Flexible Connections Special Forces

MODEL_1

Browse Groups Filters

- Bodies
- Connectors
- Motions
- Forces
 - SFORCE_1
 - gravity
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Setup

Simulate

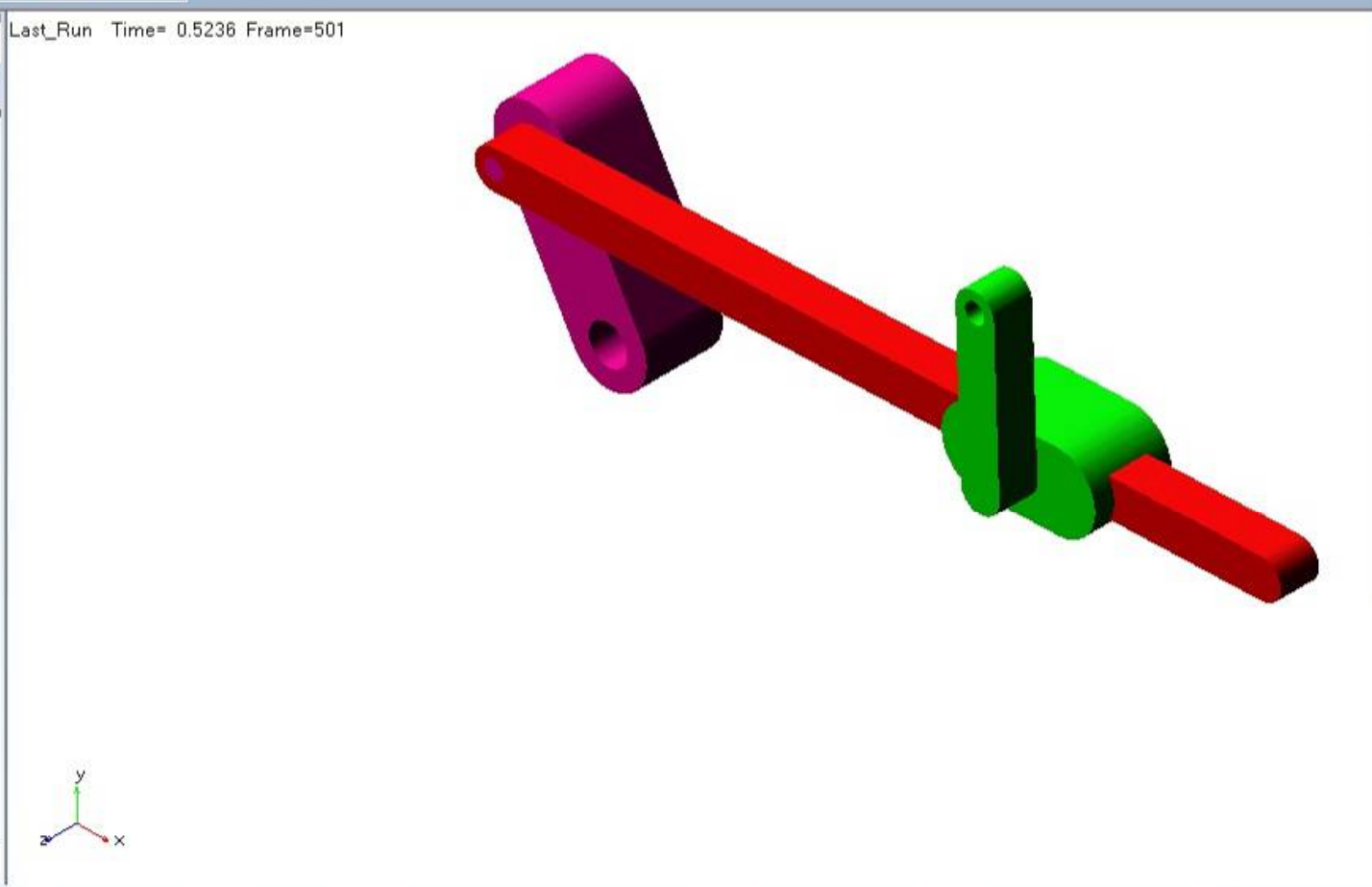
MODEL_1

Last_Run Time= 0.5236 Frame=501

Browse Groups Filters

- Bodies
- Connectors
- Motions
- Forces
 - SFORCE_1
 - gravity
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



Simulation Control

End Time (2*PI/12)

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Update graphics display

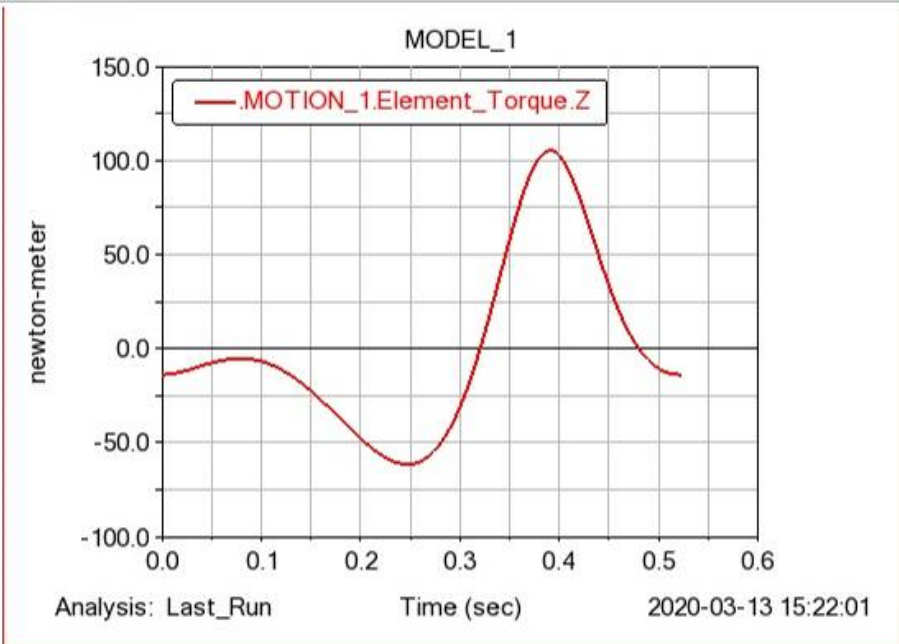
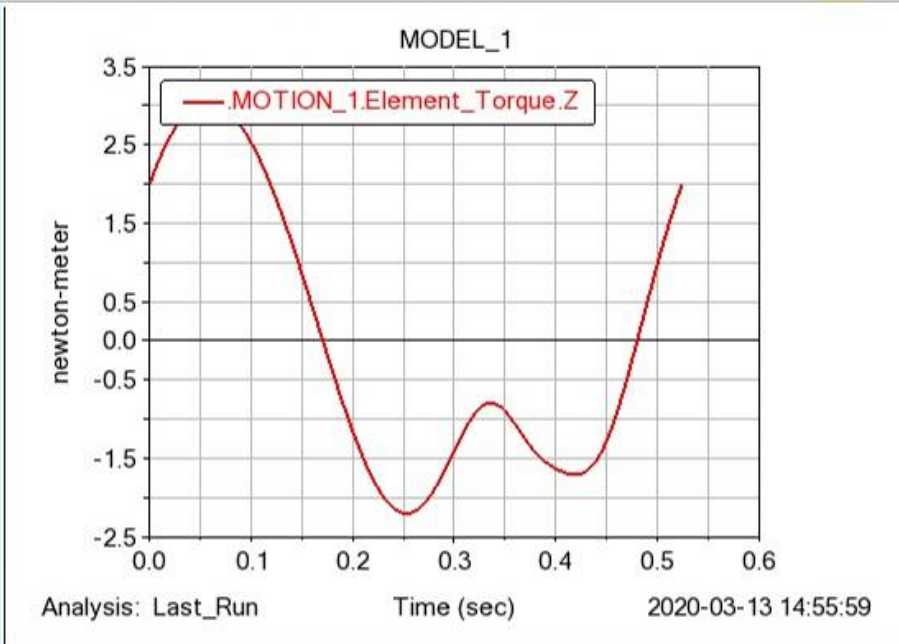
Interactive Scripted

Simulation Settings...



- MODEL_1
- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12

Name Filter *



Model	Filter	Object	Characteristic	Component	<input type="checkbox"/> Surf
MODEL_1	body	+ JOINT_1	Power_Consumption	X	<input type="checkbox"/>
	force	+ JOINT_2	Element_Force	Y	<input type="checkbox"/>
	constraint	+ JOINT_3	Element_Torque	Z	<input type="checkbox"/>
		+ JOINT_4	Translational_Displacement	Mag	<input type="checkbox"/>
		+ MOTION_1	Translational_Velocity		<input type="checkbox"/>
			Translational_Acceleration		<input type="checkbox"/>
			Angular_Velocity		<input type="checkbox"/>
			Angular_Acceleration		<input type="checkbox"/>

Source: Objects Filter: *

Independent Axis:

 Time Data



MODEL_1

- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12

Name Filter *



Data | Math

Model	Filter	Object	Characteristic	Component	<input type="checkbox"/> Surf
MODEL_1	body	+ JOINT_1	Power_Consumption	X	<input type="checkbox"/>
	force	+ JOINT_2	Element_Force	Y	<input type="checkbox"/>
	constraint	+ JOINT_3	Element_Torque	Z	<input type="checkbox"/>
		+ JOINT_4	Translational_Displacement	Mag	<input type="checkbox"/>
		+ MOTION_1	Translational_Velocity		<input type="checkbox"/>
			Translational_Acceleration		<input type="checkbox"/>
			Angular_Velocity		<input type="checkbox"/>
			Angular_Acceleration		<input type="checkbox"/>

Source: Objects

Filter: *

Buttons: Add Curves, Add Curves To Current Plot, Clear Plot

Independent Axis: Time Data

Review

MODEL_1

Browse Groups

- Bodies
- Connectors
- Motions
- Forces
 - SFORCE_1
 - gravity
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search

Modify Force

Name: SFORCE_1

Direction: On One Body, Fixed in Space

Body: PART_3

Define Using: Function

Function: []

Solver ID: 1

Force Display: On

OK Apply Cancel

Simulation Control

End Time: (2*PI/12)

Steps: 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Nastran

Update graphics display

Interactive Scripted

Simulation Settings...

Review Postprocessor

MODEL_1

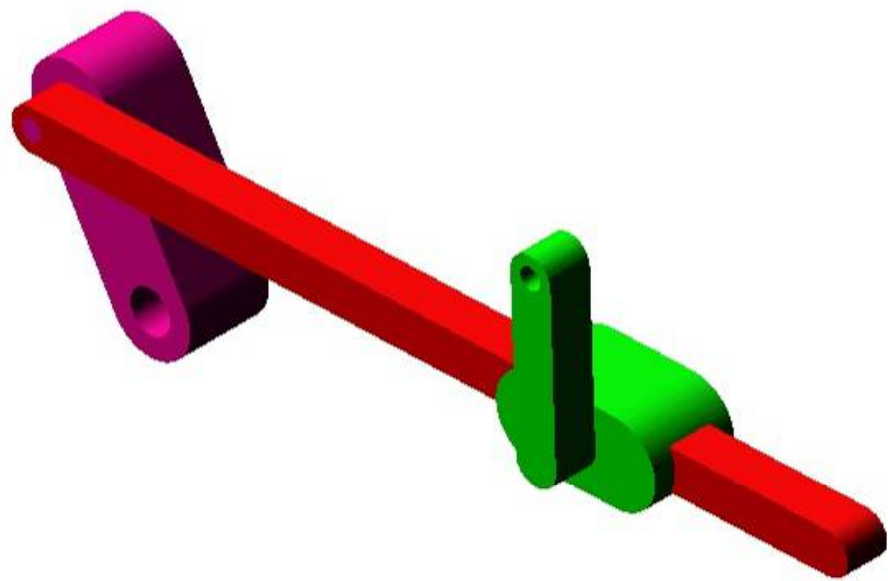
Last_Run Time= 0.5236 Frame=501

Browse Groups Filters

- Bodies
- Connectors
- Motions
- Forces
 - SFORCE_1
 - gravity
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search

Last_Run Time= 0.5236 Frame=501



Simulation Control

End Time (2*PI/12)

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Nastran

Update graphics display

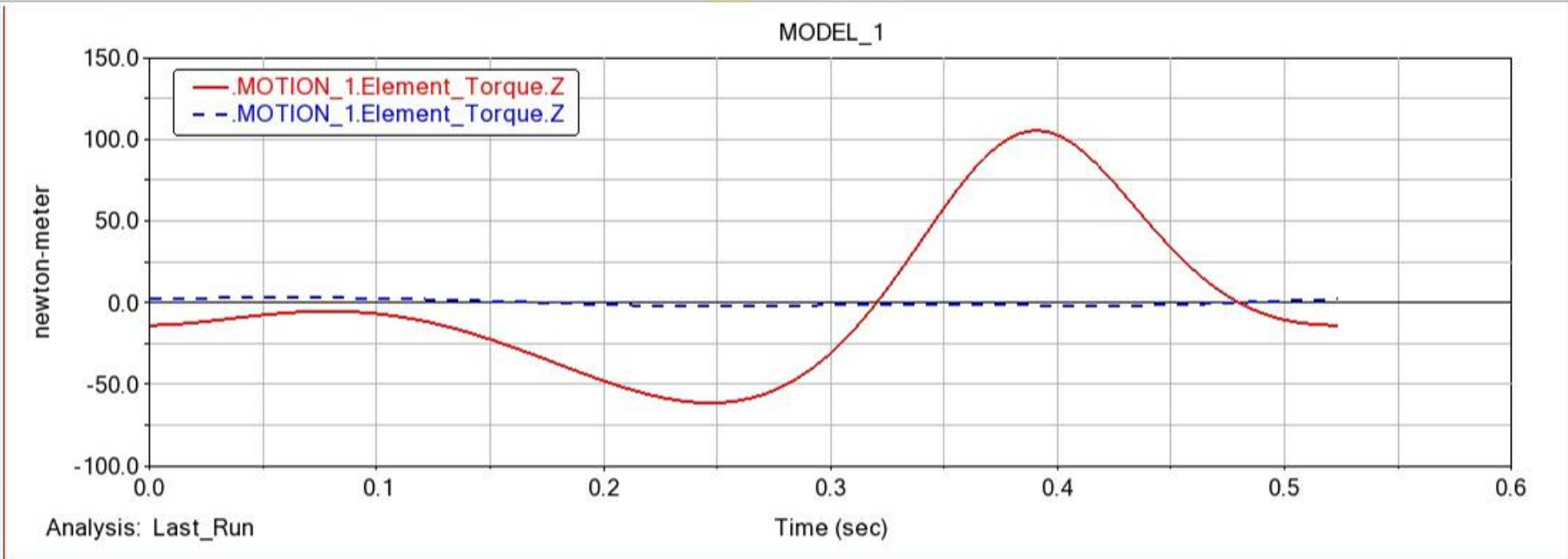
Interactive Scripted

Simulation Settings...

Plotting

- MODEL_1
- page_1
- page_2
- page_3
- page_4
- page_5
- page_6
- page_7
- page_8
- page_9
- page_10
- page_11
- page_12

Name Filter *



Data | Math

Model	Filter	Object	Characteristic	Component	Surf
MODEL_1	body	+ JOINT_1	Power_Consumption	X	<input type="checkbox"/>
	force	+ JOINT_2	Element_Force	Y	<input type="checkbox"/>
	constraint	+ JOINT_3	Element_Torque	Z	<input checked="" type="checkbox"/>
		+ JOINT_4	Translational_Displacement	Mag	<input type="checkbox"/>
		+ MOTION_1	Translational_Velocity		<input type="checkbox"/>
			Translational_Acceleration		<input type="checkbox"/>
			Angular_Velocity		<input type="checkbox"/>
			Angular_Acceleration		<input type="checkbox"/>

Source: Objects

Filter: *

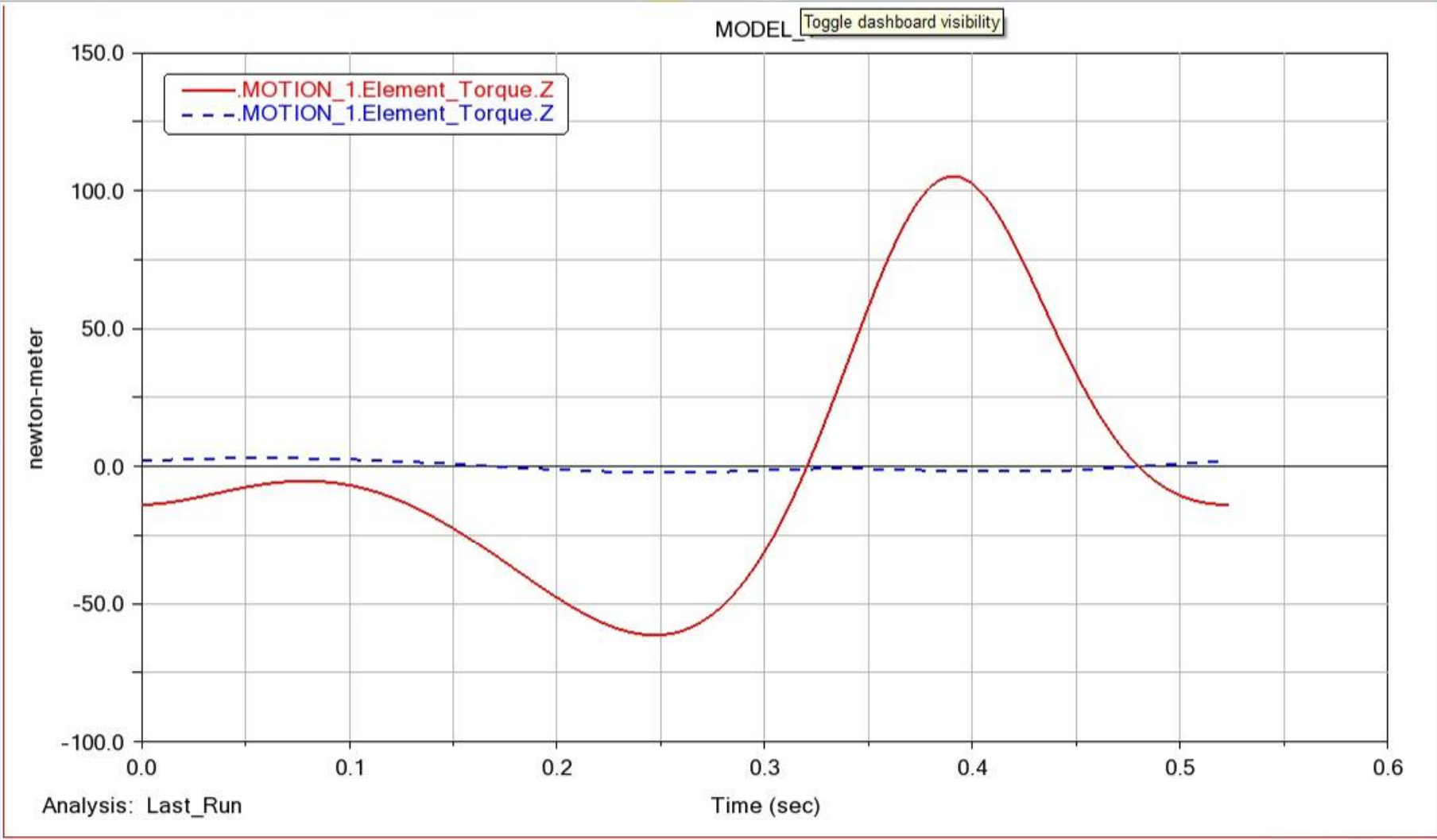
Buttons: Add Curves, Add Curves To Current Plot, Clear Plot

Independent Axis: Time Data

Plotting

- MODEL_1
 - page_1
 - page_2
 - page_3
 - page_4
 - page_5
 - page_6
 - page_7
 - page_8
 - page_9
 - page_10
 - page_11
 - page_12

Name Filter *



Toggle dashboard visibility