# ANSYS

Dr Francis J. Franklin

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ax _ X	Project Schematic	
nalysis Systems		
Electric (ANSYS)	When ANSYS Workbench starts	
Explicit Dynamics (ANSYS)		
Fluid Flow (CFX)	• If there is no Geometry in the	Project Schematic window.
Fluid Flow (FLUENT)	2 Geometry V Paral Engineering Data	
Linear Buckling (ANSYS)	Geometry Geometry then add one. If you started W	orkbench from Inventor, the
Magnetostatic (ANSY5)		,
Modal (ANSYS)	should be one already.	
Random Vibration (ANSVS)	• Add an Engineering Data tool	hav and a Statia Structural
Shape Optimization (ANSVS)	Add an Engineering Data tool	oox, and a Static Structural
Static Structural (ANSYS)	static Structural (ANSYS) toolbox	
Steady-State Thermal (ANSYS)	100100X.	
Thermal-Electric (ANSYS)	• Drag Geometry Row 2 into St	atic Structural Row 3
Transient Thermal (ANSYS)		
omponent Systems	• Drag Engineering Data Row 2	2 in Static Structural Row 2.
AUTODYN		
OFX.	• Left-click Model to select it, the	hen right-click to get the
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### 🖻 B : Static Structural (ANSYS) - Mechanical [ANSYS Academic Teaching Advanced] | File Edit View Units Tools Help | 🥥 🥬 Solve - 🏥 🔬 🙆 🔥 👰 🖓 🖓 🛠 🌾 🏠 🔞 🐚 🐚 🌆 🌚 - 🌘 😨 🖓 🏀 🌚 - 🗍





Geometry Selection 1 Face

Bearing Load

Components

Vector

0. N

No

-30000 N

Scope Scoping Method

Geometry Definition

Define By

Press F1 for Help

Coordinate System

X Component

Y Component

Z Component Suppressed

: Static Structural (ANSYS)	
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ime: 1. s	
4/10/2020 10/24	

### Bearing Load: 30000 N Components: 0., -30000, 0. N

Under Static Structural:

Geometry (Worksheet ) Print Preview ) Report Preview

🌁 Start 📔 🔥 Unsaved Project - Workb... 🔥 Unsaved Project - Workb... 🌾 Autodesk Inventor Profe... 🔯 B : Static Structural (... 😂 tmp

- Add a bearing load to simulate the load from the pin. The bearing load is largest in the centre of the region and tails off towards the edges.
- Set the required force change the field marked Vector to Components to get full control over the direction of the applied force.



W Hook1AnsysMeshSizing -...

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Metric (mm, kg, N, s, mV, mA) Degrees rad/s Celsius

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ANSYS















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🖁 B : Static Structural (ANSYS) - Mechanical [ANSYS Academic Teaching Adv.



### B: Static Structural (ANSYS) Static Structural Time: 1. s 17/10/2009 11:43

Fixed Support
 Frictionless Support
 Force: 30000 N

• *Fixed Supports* are applied to the outer extrusion on the top pin.

A vertical *Force* is applied to the bottom pin. *Frictionless Supports* are placed on the vertical surfaces of the outer extrusion on the bottom pin to constrain it to move vertically.

\_ 8 ×

It is also possible to import *assemblies* as the geometry for ANSYS models.

In this example, special pins for loading the hook are created as separate parts in Inventor and the whole assembly imported in the Geometry component in the ANSYS Project Schematic.



## Geometry (Worksheet ) Print Preview Report Preview/

2 Messages

No Selection

ANSYS

Tabular Data, Graph

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Press F1 for Help

Metric (mm, kg, N, s, mV, mA) Degrees rad/s Celsius

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27 (Auto Scale) • 🕅 • 📑 • 🎲 • 🖃 🖬 🗰		
27 (Auto Scale)	Estatic Structural (ANSYS) Equivalent Stress - Hook Only Type: Equivalent (von-Mees) Stress Uni: MPa Time: 1 17(10/2009 11:39 5596.2 Max 2000 1000 900 700 600 450 300 150 0 By default, different parts in the assembly are treated as if they are welded together ('Bonded'). The interface between each pair of	<ul> <li>Solution components can be requested for the entire assembly, or for individual parts, or even for collections of surfaces, parts, edges, etc.</li> <li>Here, the <i>Equivalent Stress</i> for just the hook has been requested.</li> <li>Extremely high stresses arise at the points where the pins lose contact with the hook.</li> </ul>
F Equivalent Stress - Hook Only 9 e Geometry Selection etry 1 Body iition Equivalent (von-Mises) Stress Time y Time Last late Time History Yes verage Yes filer iitin 0.40339 MPa aximum 6596.2 MPa mation	parts is controlled through the <i>Connections</i> branch of the tree on the left. To allow movement, change 'Bonded' to 'Frictionless' or 'No Separation'.	45.00 y90,00 (mm) 45.00 fr.50
	droph	
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