HW4-DOAN MANH HUNG

P

L

b

h

Cross section

b=20mm,

h=50mm, 100mm, 200mm.

Number of elements: 20

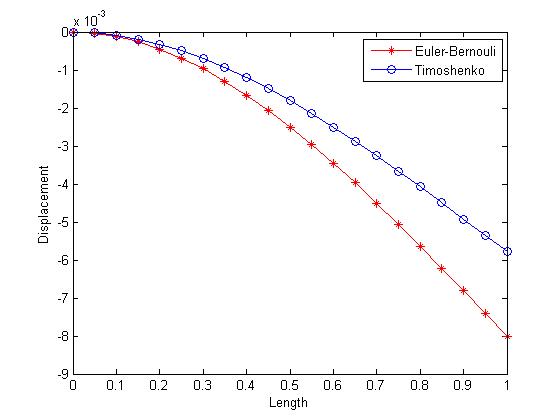
1. Calculate the displacement by using:

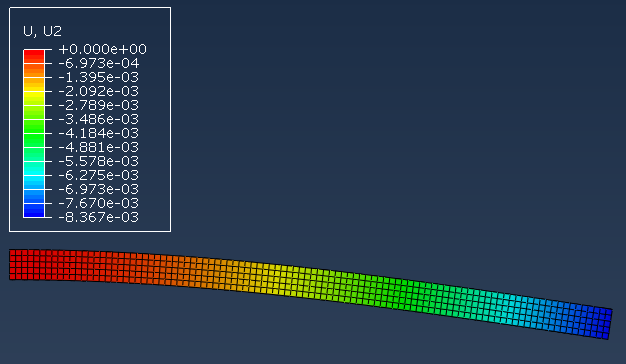
* Euler-Bernoulli theory.
* Timoshenko theory.

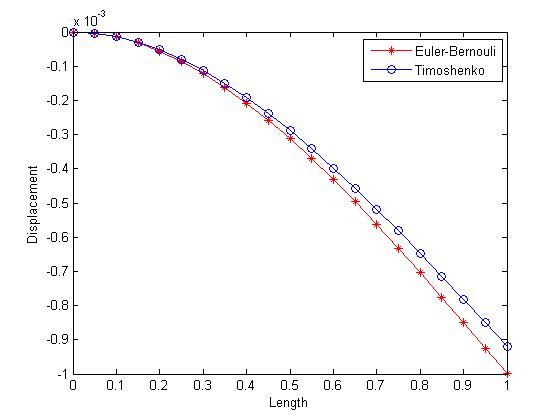
1. For h=10mm, 1mm, 0.1mm. What’s happen when using Timoshenko?

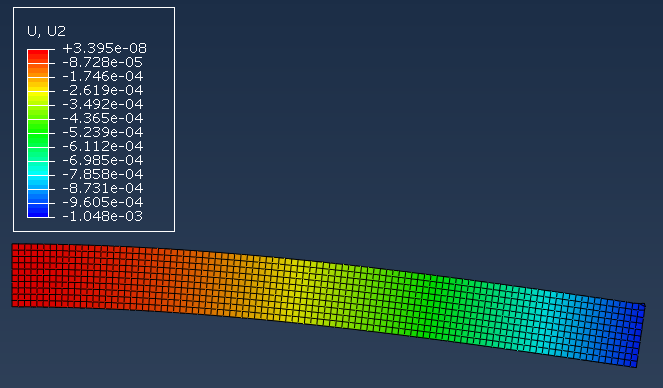
For Euler-Bernoulli theory:

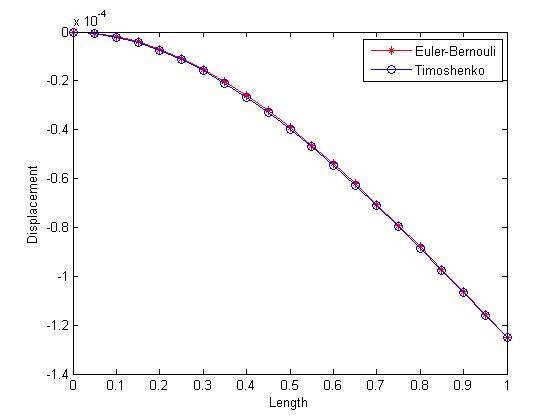
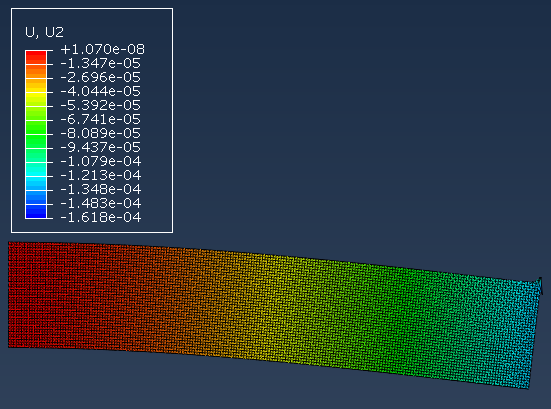
For Timoshenko theory:

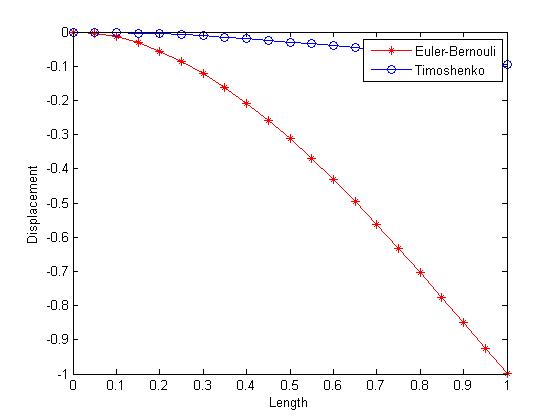
h=50mm

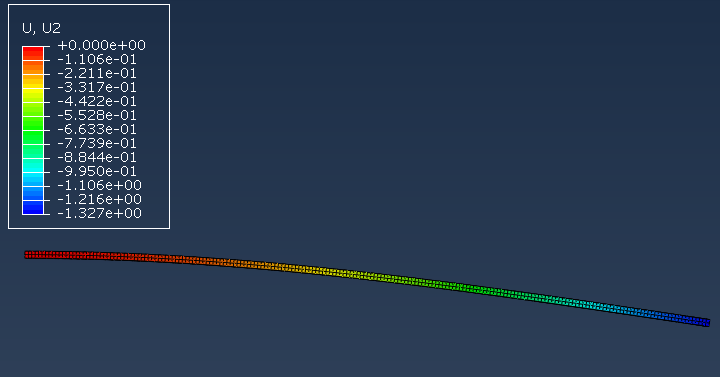


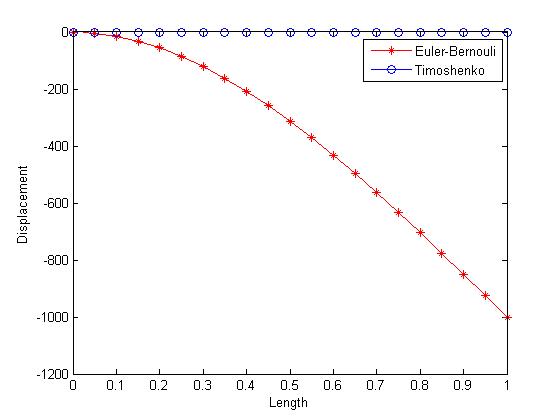
h=100mm

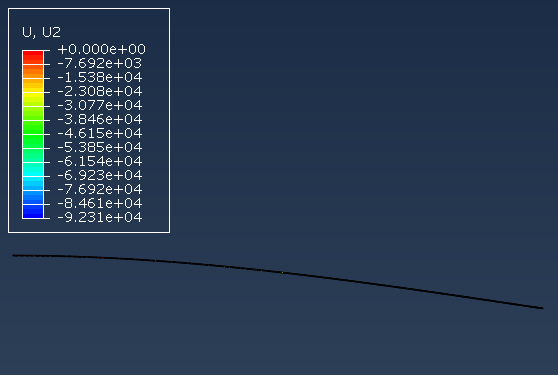


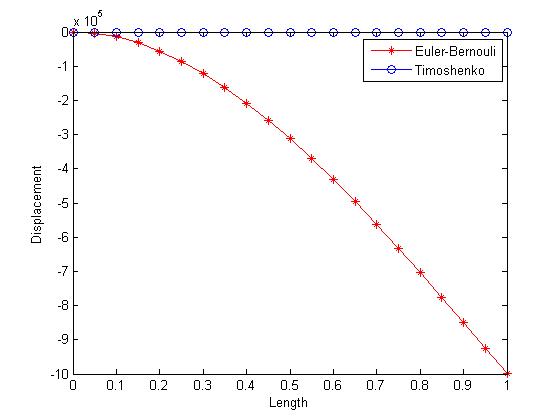
h=200mm

h=10mm



h=1mm



h=0.1mm