

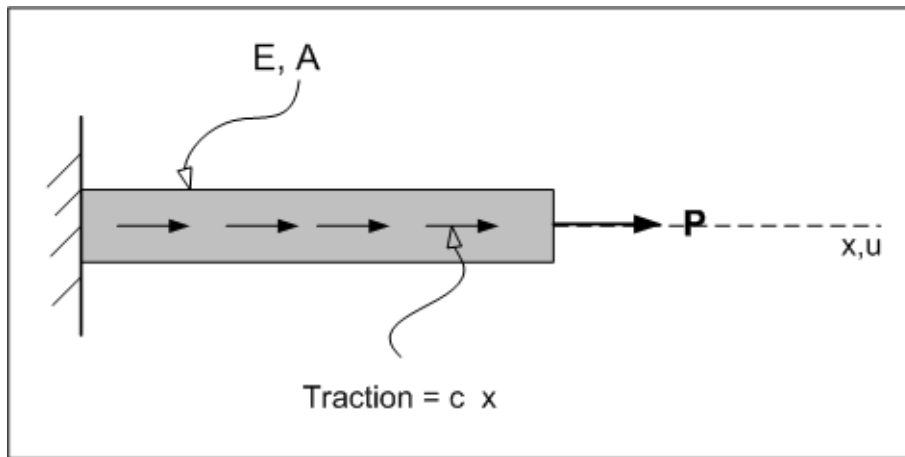
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Mathematica demonstration showing finite element solution for axial loaded beam

by Nasser M. Abbasi, Oct 2009

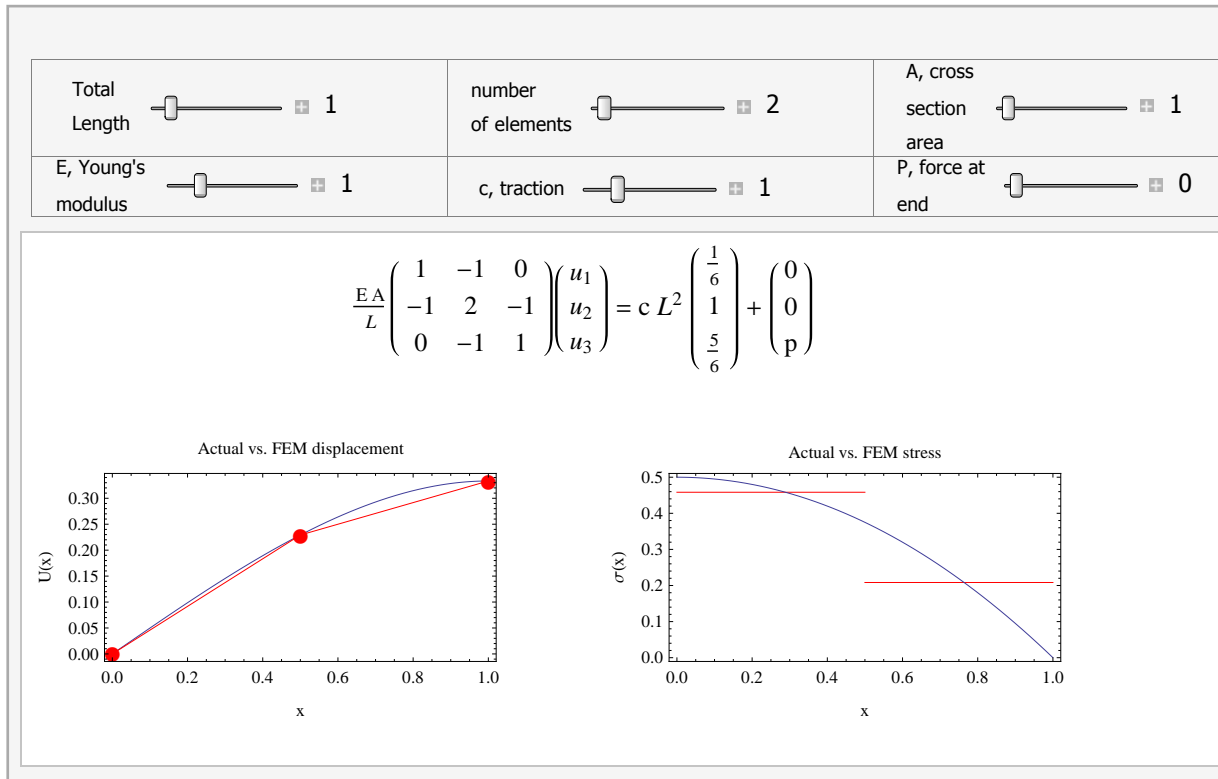
This is a demonstration written in *Mathematica* showing finite element solution by Ritz method for a simple axially loaded beam fixed at one end and free to extend on the other end as shown below

```
d = Import["diag.png"]
```



You need the free *Mathematica* player to run this demo (unless you already have *Mathematica 7* installed on your computer). The *Mathematica* player can be downloaded from [here](#)

Here is a screen shot of the GUI for the demonstration



The demonstration and other downloads

Mathematica demonstration is here

Mathematica notebook (source code) is here

An animated GIF file showing the demonstration is here