

Obligatorisk oppgave 5:  
Problem 20.1 in Senturia

You need to read chapter 20.2.2 to solve this problem.

However – there are some undefined parameters in the problem. You could estimate the values from fig. 20.9 and from the lecture note on mirrors. All reasonable values will be accepted.

Or, you can use the following values:

Width of electrode:  $W=25$  micrometer

(from figure 20.9 we see that “the width” is longer than the “length”  $L$  of the electrode normal to the torsional axis, which is 10 micrometer)

Thickness of the torsional beam:  $h=0.5$  micrometer

Width of the torsional beam:  $b=1.0$  micrometer