

# ME 146 Boiling Homework

from Incropera & DeWitt

efficient for water under atmospheric pressure in contact with mechanically polished stainless steel when the excess temperature is 15°C.

- 10.20 A silicon chip of thickness  $L = 2.5$  mm and thermal conductivity  $k_s = 135 \text{ W/m} \cdot \text{K}$  is cooled by boiling a saturated fluorocarbon liquid ( $T_{sat} =$ )