

HW #3  
(Due Sep. 30)

Problem 1 , 2 & 3

The problem 1, 2, and 3 in May & Sze's book.

In problem 2, assume there is a 20-nm native oxide (initial oxide) in the open window of gate area.

Problem 4

Yellow light has a wavelength of approximately  $0.57 \mu\text{m}$ . Calculate the thickness of silicon dioxide which will appear yellow under vertical illumination by white light. Consider oxide thickness is less than  $1.5 \mu\text{m}$ . Compare with the color chart (Table 3.4).