ANSYS Applications: Basic Grid Refinement

(Because this presentation uses problems from a textbook, the video is private.)

1 Problem 9-14

Using ANSYS, determine the temperature distribution in the window assembly shown in the accompanying figure. During the winter months, the insde air tempeature is ket at 68°F, with a corresponding heat transfer coefficient of $h = 1.46$ Btu/hr·ft^2·°F. Assume an outside air temperature of 10°F and a corresponding heat transfer coefficient of $h = 6$ Btu/hr·ft^2·°F. Show the temperature and heat flux contours, if 6 in thick.