Finite Difference Thansient Heat E24

$$\frac{1}{\alpha} \frac{2T}{2x} = \frac{2^2T}{2x^2} + \frac{2^2T}{2y^2}$$

$$F_0 = \frac{\alpha \Delta t}{\Delta x^2}$$

Two large blocks of different materials, such as aluminum and glass, have been sitting in a room (20°C) for a very long time. Which of the two blocks, if either, will feel warmer to the touch? Assume the blocks to be semi-infinite solids and your hand to be at a temperature of 37°C.

$$\int_{S} = \frac{\sqrt{K_{a}P_{a}C_{a}}}{\sqrt{K_{a}P_{a}C_{a}}} + \sqrt{K_{b}P_{b}C_{b}}}$$

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