**Noteguide for Polarization (Videos 12P) Name**



Two polarizers are at an angle of 37o with each other. If there is a 235 W/m2 beam of light incident on the first filter, what is the intensity between the filters, and after the second?

Whiteboards:

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| 1. 120. W/m2 of vertically polarized light goes through a filter that makes an angle of 21.0o with the vertical. What is the transmitted intensity? (105 W/m2) | 2. 120. W/m2 of vertically polarized light goes through a filter that makes some angle with the vertical such that only 80.0 W/m2 are transmitted. What angle does the filter make with the vertical? (35.3o) |
| 3. 500. W/m2 of UNpolarized light goes through a vertically polarized filter, and then through one the makes an angle of 68.0o with the vertical. What is the transmitted intensity? |