

The Maxwell stress tensor is given by:

$$T_{ij} = \epsilon_0(E_i E_j - \frac{1}{2} \delta_{ij} E^2) + \frac{1}{\mu_0}(B_i B_j - \frac{1}{2} \delta_{ij} B^2)$$

What is the E field part of the T_{zx} term?

- A. $\epsilon_0(E_z E_x - \frac{1}{2}(E_x^2 + E_z^2))$
- B. $\epsilon_0(E_z E_x - \frac{1}{2}E_y^2)$
- C. $\epsilon_0(E_z E_x - \frac{1}{2}(E_x^2 + E_y^2 + E_z^2))$
- D. $\epsilon_0(E_z E_x)$
- E. None of the above

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What is the E field part of the T_{zz} term?

- A. $\epsilon_0(E_z^2 - (E_x^2 + E_y^2))/2$
- B. $\epsilon_0(E_z^2 - \frac{1}{2}(E_x^2 + E_y^2))$
- C. $-\epsilon_0(E_x^2 + E_y^2)$
- D. $\epsilon_0(E_z^2)$
- E. None of the above