## **ELEC-E4130**

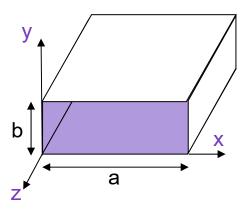
## **Comments on Midterm 2 and final scores**



ELEC-E4130 / Taylor

Dec. 16, 2020

## Comments on Midterm 2, Problem 3 solution



This component, at this frequency is <u>bigger</u>

$$|H|_{max} \rightarrow 187 \text{ A/m}$$
  
 $|E|_{max} \rightarrow 94600 \text{ V/m}$ 

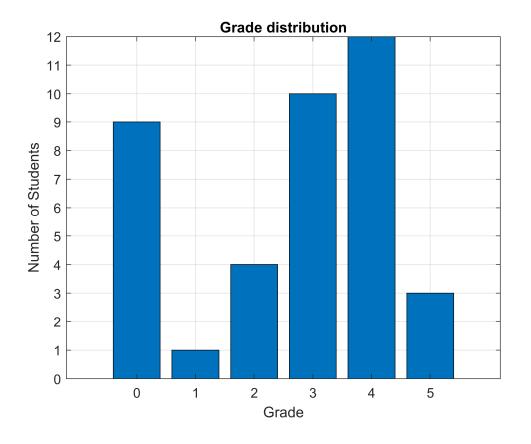
 $E_y = \frac{-j\omega\mu a}{\pi} B_{10} \sin\frac{\pi x}{a} e^{-j\beta z}$   $H_x = \frac{j\beta a}{\pi} B_{10} \sin\frac{\pi x}{a} e^{-j\beta z}$  fields  $H_z = B_{10} \cos\frac{\pi x}{a} e^{-j\beta z}$   $E_z = E_x = H_y = 0$ 

Full credit for both answers

I incorrectly used this in the solution

$$|H|_{max} \rightarrow 168 \text{ A/m}$$
  
 $|E|_{max} \rightarrow 84700 \text{ V/m}$ 

## Final grades



Great work everybody