em Documentation

Release 0.1a1

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March 14, 2018

CONTENTS

Contents:

class em.**BField**

Calculate the Magnetic Field using wire elements.

$$B = \frac{\mu_0 \cdot I}{2\pi r}$$

We calculate $\vec{B}$ as being perpendicular to $\vec{r}$

class em.**EField**

Calculate the Electric Field using point charges.

$$E = \frac{1}{4\pi\varepsilon_0}\frac{|q|}{r^2}$$

We calculate $\vec{E}$ as being parallel to $\vec{r}$

class em.**Field**

The main field object, E and B are derived from this

Contains the meshgrid and plot functions

plot(*<type>*)

plot("vector"), plot("line"), plot("vetor and line")

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