





The Title

Course Name

Professor University



EDITED BY
YOUR NAME







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A Nice Title

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§1.1 Here goes the section!

§1.1.1 And the subsection

Definition 1.1.1: DEF NAME

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Here is the nice looking Schrodinger's Equation [2]

$$i\hbar \frac{\partial}{\partial t} \Psi(\mathbf{r}, t) = \left[\frac{-\hbar^2}{2m} \nabla^2 + V(\mathbf{r}, t) \right] \Psi(\mathbf{r}, t)$$

Theorem 1.1.1: THM NAME

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Proposition 1.1.1: PROP NAME

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¹Here is an example footnote. LATEX can be customized in many different ways

Lemma 1.1.1: LEM NAME

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pat at, tincidunt tristique, libero. Vivamus viverra fermentum felis.

Corollary 1.1.1: COR NAME

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§1.2 Mathematics and Images



Figure 1.1: We can add images too!! Isn't that good.

A xwell's equations are a set of coupled partial differential equations that, together with the Lorentz force law, form the foundation of classical electromagnetism, classical optics, and electric circuits. The equations provide a mathematical model for electric, optical, and radio technologies, such as power generation, electric

motors, wireless communication, lenses, radar etc. They describe how electric and magnetic fields are generated by charges, currents, and changes of the fields. The equations are named after the physicist and mathematician James Clerk Maxwell, who, in 1861 and 1862, published an early form of the equations that included the Lorentz force law. Maxwell first used the equations to propose that light is an electromagnetic phenomenon.

Here are the Maxwell's equations in the differential form

$$\nabla \cdot \mathbf{E} = \frac{\rho}{\varepsilon_0}$$

$$\nabla \cdot \mathbf{B} = 0$$

$$\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$$

$$\nabla \times \mathbf{B} = \mu_0 \left(\mathbf{J} + \varepsilon_0 \frac{\partial \mathbf{E}}{\partial t} \right)$$
(1)

Bibliography

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