

FINAL EXAM PHYSICS REVIEW

→ CALC BASED PHYSICS PART I

→ MATTER + INTERACTIONS

$$c = 2.99 \times 10^8 \text{ m/s}$$

3 BIG IDEAS



MOMENTUM PRINCIPLE → $\vec{F}_{\text{NET}} = \frac{\Delta \vec{P}}{\Delta t}$

$$\vec{p} = \frac{m\vec{v}}{\sqrt{1 - \frac{v^2}{c^2}}}$$

$$\vec{p} = m\vec{v}$$

$$\Delta \vec{p} = \vec{p}_2 - \vec{p}_1$$

WORK-ENERGY → $W = \Delta E$

$$W = \vec{F} \cdot \Delta \vec{r} = \int_1^2 \vec{F} \cdot d\vec{r}$$

$$E = \frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$$

$$K = \frac{1}{2}mv^2$$

$$\vec{L}_{\text{NET } 0} = \vec{r} \times \vec{F}$$

$$\vec{L} = \vec{r} \times \vec{p}$$

$$\Delta \vec{p} = \vec{F}_{\text{NET}} \Delta t$$

← time

$$\Delta K = \vec{F} \cdot \Delta \vec{r}$$

→ NO TIME

ANGULAR MOMENTUM $\vec{L}_{\text{NET } 0} = \frac{\Delta \vec{L}}{\Delta t}$

2nd Semester Final Exam Review A Physics

Mark Steyvers



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