

PHYS*1010 - Weeks 1–2 Midterm Study Guide

1 ■ Significant Figures

- Addition/Subtraction → round to least precise decimal place.
- Multiplication/Division → round to fewest significant figures.
- Mixed operations → perform in order, rounding only at the end.
- Even–odd rule for rounding 5s.

Example: $(15 - 6.75) \times 2.0 = 16$ (2 sig figs).

2 ■ Uncertainties

- Absolute uncertainty (Δx): \pm value (e.g., 12.4 ± 0.1 cm).
 - Relative uncertainty: $(\Delta x / x)$.
 - Percent uncertainty = $(\Delta x / x) \times 100\%$.
 - Addition/Subtraction: $\Delta q = \sqrt{(\Delta A)^2 + (\Delta B)^2}$.
 - Multiplication/Division: $(\Delta q/q) = \sqrt{[(\Delta A/A)^2 + (\Delta B/B)^2]}$.
 - Powers: multiply relative uncertainty by exponent.
 - Round uncertainty to 1 sig fig, main value to same decimal place.
- Example: $E = kx^2$, $k = 75 \pm 2$, $x = 0.130 \pm 0.005 \rightarrow (0.63 \pm 0.05)$ J.

3 ■ Statistics (Mean, σ , SDOM)

- Mean: $\bar{x} = \Sigma x / n$.
- Standard deviation: $\sigma = \sqrt{[\Sigma(x - \bar{x})^2] / (n - 1)}$.
- SDOM (uncertainty in mean): σ / \sqrt{n} .
- Report result as $(\bar{x} \pm \text{SDOM})$.

Example: 1.95, 2.25, 2.14, 1.99, 2.10 $\rightarrow 2.09 \pm 0.05$ s.

4 ■ Dimensional Analysis

- Replace all quantities with base SI units: [L], [M], [T].
- Ensure both sides of equation have same dimensions.
- Common units:
 - Force = MLT^{-2}
 - Energy = ML^2T^{-2}
 - Pressure = $ML^{-1}T^{-2}$
 - Power = ML^2T^{-3}

Example: Pressure \times Area = $(ML^{-1}T^{-2})(L^2) = MLT^{-2}$ = Force.

5 ■ Normal Distribution

- 68–95–99.7 rule: 68% within 1σ , 95% within 2σ , 99.7% within 3σ .
- Example: Mean = 58, $\sigma = 8$, $n = 300 \rightarrow \sim 48$ students below 50 ($\sim 16\%$).

6 ■ Applications (Uncertainty)

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Yan Bai



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