

# 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:  $(15 - 6.75) + 2.0 = 16$  (2 sig figs).

## 2 ■ Uncertainties

- Absolute uncertainty ( $\Delta x$ ):  $\pm$  value (e.g.,  $12.4 \pm 0.1$  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, $\sigma$ , SDOM)

- Mean:  $\bar{x} = \Sigma x / n$ .
- Standard deviation:  $\sigma = \sqrt{[\Sigma(x - \bar{x})^2] / (n - 1)}$ .
- SDOM (uncertainty in mean):  $\sigma / \sqrt{n}$ .
- 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  $1\sigma$ , 95% within  $2\sigma$ , 99.7% within  $3\sigma$ .
- Example: Mean = 58,  $\sigma = 8$ ,  $n = 300 \rightarrow \sim 48$  students below 50 ( $\sim 16\%$ ).

## 6 ■ Applications (Uncertainty)

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