

IB Physics HL Study Guide

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Section I: Mechanics Part I

Measurement and Uncertainty

- Orders of Magnitude
 - 10^{-1} to 10^7 . COSE is to compare to m, s, kg for convenience (COSE is to m, s, kg)
- Know the SI fundamental units
 - mass, length, time, temp, electric current
- Sig Figs
 - When adding/subtracting, result has greatest number decimal places
 - When multiplying/dividing, use least precise measuring figs
- Types of error
 - Random, systematic, zero offset
- Percentage uncertainty
- Uncertainty
 - Converted to \pm half of smallest readable unit
 - sig figs rounded up
- Know how to combine quantities with uncertainties

Methods

- Interchange differential equations variables, resulting differential eqn with distance
- Use calculus with $v(t)$ and $a(t)$ graphs
- Four fundamental kinematics equations (distance, velocity, a , t) combined into v^2
- Graphical methods with area under curve techniques
- Proportional relationships
- Simple circuits
 - Use Kirchhoff's laws to calculate individual resistor components
 - Use Ohm's law and use angles of all angles
 - Use Kirchhoff's laws to calculate current in all parts and then total current

Ib Physics Hl Study Guide

Clifford Lane



Ib Physics HL Study Guide:

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