

KINEMATICS

Distance $\Rightarrow l = r\theta$

radians



Displacement $\Rightarrow 2r \sin(\frac{\theta}{2})$

② Avg. Velocity & Avg. Speed:

Avg. Velocity = $\frac{\text{Total displacement}}{\text{Total time}}$

Avg. Speed = $\frac{\text{Total distance}}{\text{Total time}}$

Note: $|\text{displacement}| \leq \text{distance}$

Avg. Velocity \leq Avg. Speed.

* Important Case:

1) If body covers 'n' equal distances with velocities $v_1, v_2, v_3, \dots, v_n$; then avg. speed:

$$v_{\text{avg}} = \frac{n}{\frac{1}{v_1} + \frac{1}{v_2} + \dots + \frac{1}{v_n}}$$

2) If $n=2$, Avg. speed will be -

$$v_{\text{avg}} = \frac{2v_1v_2}{v_1 + v_2}$$

③ Instantaneous Velocity:

$v = \frac{ds}{dt} = \tan \theta$
= slope of s-t curve



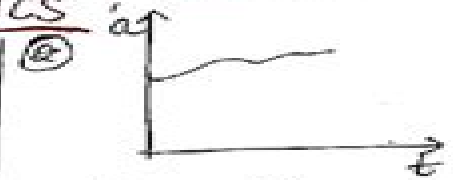
④ # ①



$v = \frac{ds}{dt}$
 $ds = v dt$

$\int_{s_1}^{s_2} ds = \int_{t_1}^{t_2} v dt$
 $[s]_{s_1}^{s_2} = \int_{t_1}^{t_2} v dt$

displacement $\left[s_2 - s_1 = \int_{t_1}^{t_2} v dt = \text{Area Under Curve} \right]$



$a = \frac{dv}{dt}$

$dv = a dt$

$\int_{v_1}^{v_2} dv = \int_{t_1}^{t_2} a dt \Rightarrow [v]_{v_1}^{v_2} = \int_{t_1}^{t_2} a dt$

change in velocity $\left[v_2 - v_1 = \int_{t_1}^{t_2} a dt = \text{Area under Curve} \right]$

⑤ Equations of Motion Always valid:

① $v = \frac{ds}{dt}$

② $s_2 - s_1 = \int_{t_1}^{t_2} v dt$

③ $a = \frac{dv}{dt}$

④ $v_2 - v_1 = \int_{t_1}^{t_2} a dt$

⑤ $a = v \frac{dv}{ds}$

⑥ Equation of Motion for Uniform Acceleration

For constant acceleration,

① $v = u + at$

u \rightarrow initial velocity
v \rightarrow final velocity

② $s = ut + \frac{1}{2} at^2$

a \rightarrow acceleration [constant]

③ $v^2 - u^2 = 2as$

t \rightarrow time period of acceleration.
s \rightarrow displacement.

⑦ Important Results for Uniform Acceleration:
a = constant.

1) A particle moving with uniform acceleration from A to B along a straight line has velocities v_1 and v_2 at A and B, respectively. If C is the mid point b/w A and B, then -

$$v = \sqrt{\frac{v_1^2 + v_2^2}{2}}$$



Dist \rightarrow shift
Ind. \rightarrow diff. of time

Notes For General Physics

Albert A Gayle



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Table of Contents Notes For General Physics

1. Understanding the eBook Notes For General Physics
 - The Rise of Digital Reading Notes For General Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Notes For General Physics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Notes For General Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Notes For General Physics
 - Personalized Recommendations
 - Notes For General Physics User Reviews and Ratings
 - Notes For General Physics and Bestseller Lists
5. Accessing Notes For General Physics Free and Paid eBooks
 - Notes For General Physics Public Domain eBooks
 - Notes For General Physics eBook Subscription Services
 - Notes For General Physics Budget-Friendly Options

6. Navigating Notes For General Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Notes For General Physics Compatibility with Devices
 - Notes For General Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Notes For General Physics
 - Highlighting and Note-Taking Notes For General Physics
 - Interactive Elements Notes For General Physics
8. Staying Engaged with Notes For General Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Notes For General Physics
9. Balancing eBooks and Physical Books Notes For General Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Notes For General Physics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Notes For General Physics
 - Setting Reading Goals Notes For General Physics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Notes For General Physics
 - Fact-Checking eBook Content of Notes For General Physics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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