

JEE MAIN 2022



STAGE

PHYSICS

CONCEPTS
VISION
ONE SHOT



<https://vizle.offnote.co>

Contact us: vizle@offnote.co

This document was generated automatically by **Vizle**

Your **Personal Video Reader Assistant**

Learn from Videos **Faster** and **Smarter**

VIZLE PRO / BIZ

- Convert *entire* videos PDF, PPT
- Customize to retain all essential content
- Include Spoken *Transcripts*
- Customer support

VIZLE FREE PLAN

- Convert videos *partially*
- Slides may be *skipped**
- Usage restrictions
- No Customer support

PDF only

Visit <https://vizle.offnote.co> to try free

Login to Vizle to unlock more slides*

Visit <https://vizle.offnote.co/pricing> to learn more

Kinematics

RECILINEAR MOTION

- Instantaneous velocity is the slope of position time curve.
- Slope of velocity-time curve = instantaneous acceleration
- v-t curve area gives displacement.
- a-t curve area gives change in velocity.

$$v = \lim_{\Delta t \rightarrow 0} \frac{\Delta x}{\Delta t} = \frac{dx}{dt}$$

Graphs

functions ↗

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

$$a = \frac{dv}{dt}$$
 ✓

$$\Delta x = \int v dt$$

$$\Delta v = \int a dt$$



Differentiation

Displacement

Velocity

Differentiation

Acceleration



<https://vizle.offnote.co>

Contact us: vizle@offnote.co

This document was generated automatically by **Vizle**

Your **Personal Video Reader Assistant**

Learn from Videos **Faster** and **Smarter**

VIZLE PRO / BIZ

- Convert *entire* videos PDF, PPT
- Customize to retain all essential content
- Include Spoken *Transcripts*
- Customer support

VIZLE FREE PLAN

- Convert videos *partially*
- Slides may be *skipped** PDF only
- Usage restrictions
- No Customer support

Visit <https://vizle.offnote.co> to try free

Login to Vizle to unlock more slides*

Visit <https://vizle.offnote.co/pricing> to learn more