

Simple Harmonic Motion :

30.01.2023,

$$F = -ky \text{ --- (i)}$$

$$F = ma' \text{ --- (ii)}$$

$$ma' = -ky$$

$$a' = \frac{-ky}{m} \text{ --- (iii)}$$

$$a' = \frac{d^2y}{dt^2}$$

$$\therefore \text{ (iii) } \Rightarrow \frac{d^2y}{dt^2} = -\frac{ky}{m}$$

$$\text{or, } m \frac{d^2y}{dt^2} = -ky$$

$$\text{or, } m \frac{d^2y}{dt^2} + ky = 0$$

$$\text{or, } \boxed{\frac{d^2y}{dt^2} + \frac{ky}{m} = 0}$$

$$\text{or, } \boxed{\frac{d^2y}{dt^2} + \omega^2 y = 0}$$

$$v = \frac{dy}{dt} \quad a = \frac{dv}{dt} = \frac{d^2y}{dt^2}$$



$$\omega^2 = \frac{k}{m}$$

$$\text{or, } \omega = \sqrt{\frac{k}{m}}$$

general resolution of differential equation of simple harmonic motion :-

$$\frac{d^2y}{dt^2} = -\omega^2 y \text{ --- (i)}$$

multiply by $2 \frac{dy}{dt}$ -

$$2 \frac{dy}{dt} \cdot \frac{d^2y}{dt^2} = -\omega^2 y \cdot 2 \frac{dy}{dt}$$

$$\text{or, } 2 \frac{dy}{dt} \frac{d^2y}{dt^2} = -2\omega^2 y \frac{dy}{dt}$$

$$\text{or, } \left(\frac{dy}{dt}\right)^2 = -\omega^2 y^2 + c \text{ --- (ii) [Integration] } \left| \frac{d}{dt} \left\{ \left(\frac{dy}{dt}\right)^2 \right\} = 2 \frac{dy}{dt} \cdot \frac{d^2y}{dt^2} \right|$$

At maximum displacement (when $y = a$)

$$\frac{dy}{dt} = 0$$

$$\text{or, } 0 = -\omega^2 a^2 + c$$

$$\text{or, } c = \omega^2 a^2$$

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Choice of a Medical School, July 1, 1928 Council on Medical Education and Hospitals (American Medical Association),1927 *General Catalog - Texas Tech University* Texas Tech University,1957 **United States Air Force Academy** United States Air Force Academy,1968 **Bulletin of the University of Texas** ,1904 **General Register of the Students and Former Students of the University of Texas, 1917** University of Texas. Ex-students' Association,1917 Annual Catalogue of Baylor University at Waco, Texas Baylor University,1907 **ELs in Texas: What School Leaders Need to Know** John Seidlitz,Melinda Base,Mónica Lara,Mary Martin,2020-06-25 School leaders need a convenient and accessible resource that integrates the voluminous amounts of information in their binders books and manuals into one easy to read resource The updated Third Edition of ELs in Texas What School Leaders Need to Know responds to this need with an understanding of the overwhelming tasks required of school administrators bilingual esl coordinators and instructional coaches specialists on a daily basis This comprehensive resource includes explanations of current policy and law information and guidance related to federal and Texas state law for ELs a convenient and efficient resource for school leaders at all levels of experience a collection of current and relevant statutes codes and guidance for leading programs This resource is best experienced in the Google Play Books app on your tablet or in the Adobe Digital Edition e reader on desktop laptop

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