

Force (N) = mass (kg) \times acceleration (m/s^2)

Acceleration of gravity

Velocity (v) = acceleration (a) \times time (t)

$a = g = 9.8 \text{ m/s}^2$

1. The maximum acceleration of a fist in a karate blow has been measured to be 3500 m/s^2 . The mass of the fist is .70 kg. If the fist hits a wooden block, what force does the wood place on the fist?

2. How much force is needed to accelerate a bicycle and rider with mass 60 kg at 1.5 m/s^2 ?

$$60 \text{ kg} \times 1.5 \text{ m/s}^2$$

3. What is the acceleration of a 4000 kg airplane that has a force on it of 24000 N?

$$4000 \text{ kg}$$

4. An 80-N force will accelerate a 20-kg mass at 4 m/s^2 .

a. What force will be required to maintain the same acceleration if the mass is doubled?

b. If the mass is doubled and the force remains the same what is the acceleration?

5. An acorn falls from the top of an oak tree to the ground in 1.5 seconds. What is the velocity of the acorn when it hits the ground?

$$14.7$$

6. An object dropped from a 20-story building takes about 4 seconds to fall. How fast is it going when it strikes the ground?

$$39.2$$

Physical Science If8767 Acceleration Calculation

AW Chickering



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Principles of Charged Particle Acceleration Stanley Humphries, 2013-09-11 This authoritative text offers a unified programmed summary of the principles underlying all charged particle accelerators it also doubles as a reference collection of equations and material essential to accelerator development and beam applications The only text that covers linear induction accelerators the work contains straightforward expositions of basic principles rather than detailed theories of specialized areas 1986 edition

Miles' Equation in Random Vibrations Jaap Wijker, 2018-01-25 This book discusses the theory applicability and numerous examples of Miles equation in detail Random vibration is one of the main design drivers in the context of the design development and verification of spacecraft structures instruments equipment etc and Miles equation provides a valuable tool for solving random vibration problems It allows mechanical engineers to make rapid preliminary random response predictions when the complex structure is exposed to mechanical and acoustical loads The book includes appendices to support the theory and applications in the main chapters

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