

MECHANICAL ENGINEERS' HANDBOOK

Materials and Engineering
Mechanics

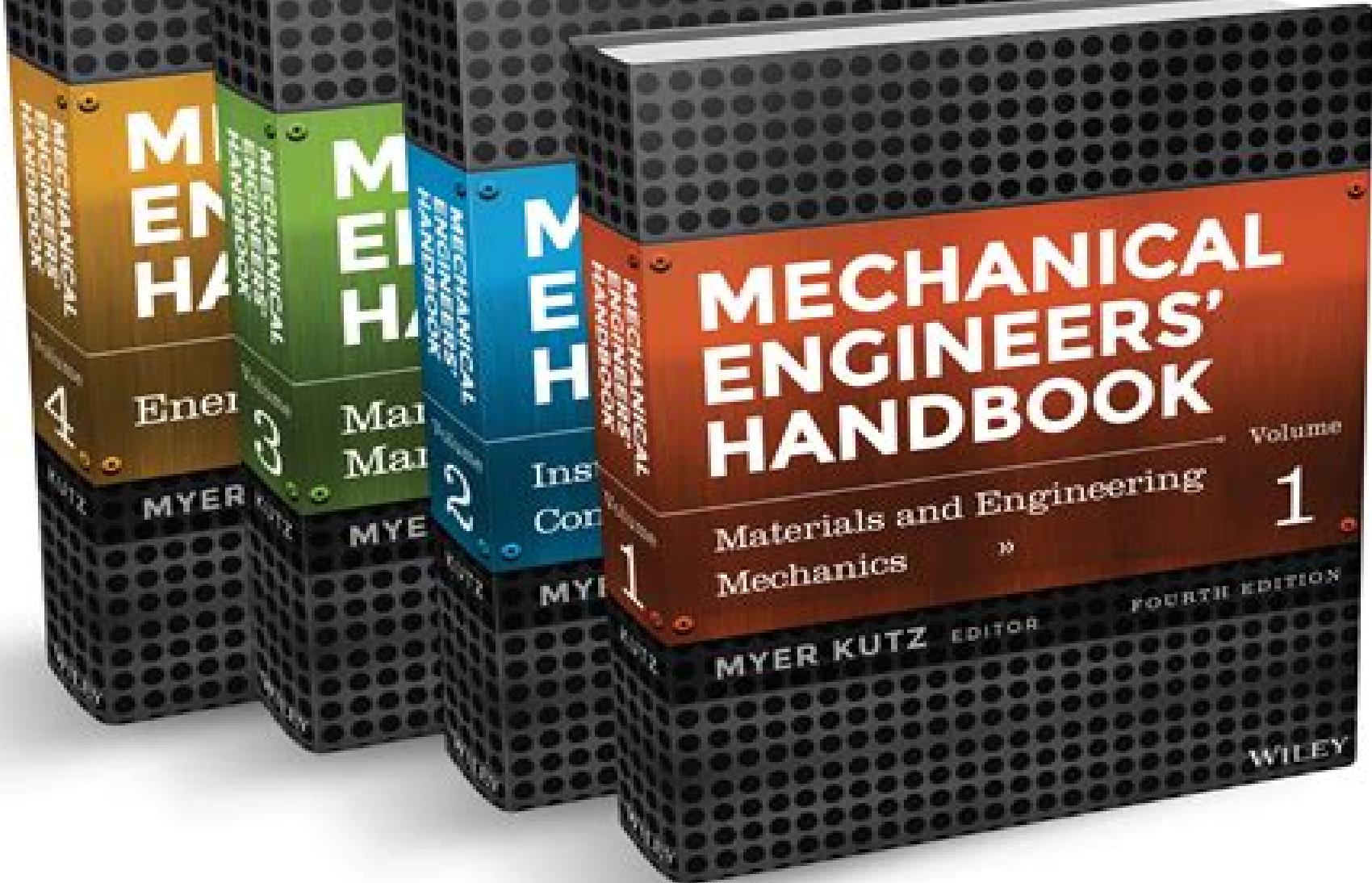
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web mathematically it is computed using the following equation power work time or $P = W/t$ the standard metric unit of power is the watt as is implied by the equation for power a unit of power is equivalent to a unit of work divided by a unit of time

thus a watt is equivalent to a joule second

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web 1 which of the following statements are true about work include all that apply work is a form of energy a watt is the standard metric unit of work units of work would be equivalent to a newton times a meter a $\text{kg m}^2 \text{s}^{-2}$ would be a unit of work work is a time based quantity it is dependent upon how fast a force displaces an object

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web power an object can store energy as the result of its position for example the heavy ball of a demolition machine is storing energy when it is held at an elevated position this stored energy of position is referred to as potential energy similarly a drawn bow is able to store energy as the result of its position

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web answer a for any given situation the work done by a force can be calculated using the equation $w = f d \cos \theta$ where f is the force doing the work d is the displacement of the object and θ is the angle between the force and the displacement

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web show answer problem 3 lamar gant u s powerlifting star became the first man to deadlift five times his own body weight in 1985 deadlifting involves raising a loaded barbell from the floor to a position above the head with outstretched arms determine the work done by lamar in deadlifting 300 kg to a height of 0.90 m above the ground

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web check your understanding use your understanding of the work energy theorem to answer the following questions then click the button to view the answers 1 consider the falling and rolling motion of the ball in the following two resistance free situations