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The total kinetic energy of the particles that make up a substance is called the ____ energy True The identity of a substance does not change during a change of state, but the energy of a substance does change.

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Chapter 3 Kinetics of Particles Question 3-1 A particle of mass m moves in the vertical plane along a track in the form of a circle as shown in Fig. P3-1. The equation for the track is $r = r_0 \cos\theta$ Knowing that gravity acts downward and assuming the initial conditions $\theta(t = 0) = 0$ and $\dot{\theta}(t = 0) = \dot{\theta}_0$, determine (a) the differential equation of motion for the particle and (b) the force ...

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When the particles of a liquid gain heat, they start to move faster until the particles overcome the forces holding them together and

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