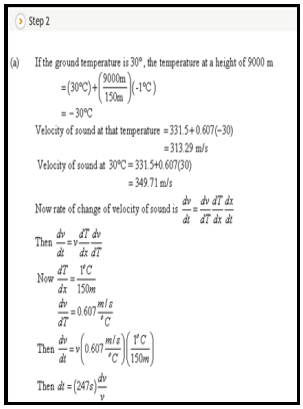
Physics for Scientists and Engineers Extended (Cloth) & Student Solution Manual, Volume 1

W. H. Freeman - Physics for Scientists and Engineers, Extended Version (August 16, 2007 edition)


Step 2

(a) If the ground temperature is 30°, the temperature at a height of 9000 m

$= (30°C) + \left(\frac{9000m}{150m}\right)(-1°C)$

$= -30°C$

Velocity of sound at that temperature $= 331.5 + 0.607(-30)$

$= 313.29\ m/s$

Velocity of sound at $30°C = 331.5 + 0.607(30)$

$= 349.71\ m/s$

Now rate of change of velocity of sound is $\frac{dv}{dt} = \frac{dv}{dT}\frac{dT}{dx}\frac{dx}{dt}$

Then $\frac{dv}{dt} = v\frac{dT}{dx}\frac{dv}{dT}$

Now $\frac{dT}{dx} = \frac{1°C}{150m}$

$\frac{dv}{dT} = 0.607\frac{m/s}{°C}$

Then $\frac{dv}{dt} = v\left(0.607\frac{m/s}{°C}\right)\left(\frac{1°C}{150m}\right)$

Then $dt = (247s)\frac{dv}{v}$

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