

Pregunta Taylor

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Díaz

Energía $[kg \cdot m^2 / s^2]$
(E)

$$E = [M \cdot \frac{L^2}{T^2}]$$

Densidad $[kg \cdot l \cdot m^3]$
(ρ)

$$\rho = [M / L^3]$$

Tiempo [s]
(T)

$$T = [T]$$

Radio [m]
(R)

$$R = [L]$$

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$$E \propto \rho^a \cdot T^b \cdot R^c$$

$$M \cdot \frac{L^2}{T^2} = [M / L^3]^a [T]^b [L]^c$$

$$M \frac{L^2}{T^2} = M^a \cdot L^{-3a} \cdot T^b \cdot L^c$$

$$M \frac{L^2}{T^2} = M^a \cdot L^{-3a+c} \cdot T^b$$

$$M^1 = M^a$$
$$a=1$$

$$L^2 = L^{-3a+c}$$
$$c=5$$

$$T^{-2} = T^b$$
$$b=-2$$

$a=1$
$b=-2$
$c=5$

$$E(\rho, T, R) \rightarrow E(\rho^1, T^{-2}, R^5)$$

- Dimensiones:

$$M = kg, g, L, etc... [Masa]$$

$$T = h, s, m [tiempo]$$

$$L = Km, m, cm [Longitud]$$