Answer on Question#51610 - Physics - Field Theory

Which of the following is the correct unit of k in the equation of a damped harmonic oscillator given as

-bv - kx = ma

, where b is the damping factor and all the symbols have their usual meaning?

Solution:

The unit of ma is kg \cdot m \cdot s⁻². Since kx should be of the same unit and the unit of x is m, the unit of k is kg \cdot s⁻².

<u>Answer:</u> kg \cdot s⁻².

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