Name : Adelekun Oluwademilade David

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Programme: Electrical Electronics Engineering

Formula under elasticity of solids

Force= force constant (k)× extension in metres

Example: Calculate the force of a rubbery plastic material that was dragged and whose length increased by a factor of 0.5m and force constant is 20N/m provided that the material has not exceeded its elastic limit.

Solution

F= k×e

F= 20×0.5

F= 10Newtons