

## Physics



# Linear expansion – problems and solutions

by [Alexander San Lohat](#)

1. A steel is 40 cm long at  $20^{\circ}\text{C}$ . The coefficient of [linear expansion](#) for steel is  $12 \times 10^{-6} (\text{C}^{\circ})^{-1}$ . The increase in length and the final length when it is at  $70^{\circ}\text{C}$  will be...

Known:

The change in temperature  $(\Delta T) = 70^{\circ}\text{C} - 20^{\circ}\text{C} = 50^{\circ}\text{C}$

The original length  $(L_1) = 40 \text{ cm}$

Coefficient of linear expansion for steel  $(\alpha) = 12 \times 10^{-6} (\text{C}^{\circ})^{-1}$

Wanted: The change in length  $(\Delta L)$  and the final length  $(L_2)$



# Thermal Expansion Problems And Solutions Pdf

**Jin-Ying Zhang**



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