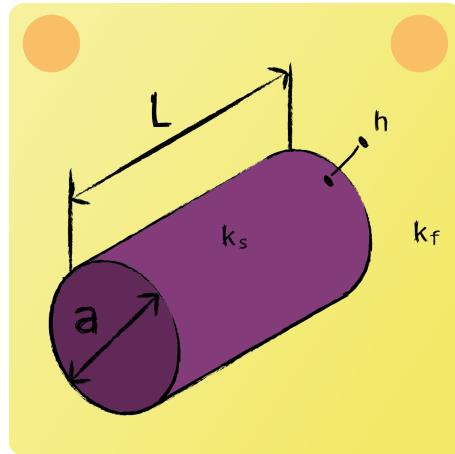


# Lecture 06 - Characteristic Length 02

Give an expression for the characteristic length  $L_c$ , for a long cylinder subjected to convection.



The characteristic length of a long cylinder:

$$L_c = \frac{V}{A_s} = \frac{\frac{1}{4}\pi a^2 L}{\pi a L} = \frac{a}{4}$$