

A diagram consisting of three blue boxes with dark blue borders. The top row contains two boxes, the left one labeled 'A' and the right one labeled 'B'. A yellow bar with a dark orange border, labeled 'I', is positioned below these two boxes, connecting them. Below the yellow bar is a single, wider blue box labeled 'C'.

A

B

I

C



A diagram illustrating heat transfer. On the left is a light red rounded rectangle with a dark red border, containing the text "heat source". A horizontal grey bar connects this source to a light blue rounded rectangle with a dark blue border on the right, containing the text "heat sink". Inside the grey bar is a red wavy line with an arrowhead pointing towards the sink, representing the path of heat energy.

heat
source

heat
sink

heat
source

C_1

C_2

C_3

heat
sink

A diagram illustrating a heat engine cycle. On the left is a red box labeled "heat source". On the right is a blue box labeled "heat sink". In the center, three horizontal bars represent heat reservoirs: a top light brown bar labeled C_1 , a middle light green bar labeled C_2 , and a bottom light yellow bar labeled C_3 . The bars are connected to the heat source and heat sink, suggesting a cycle where heat is drawn from the source, passes through the reservoirs, and is rejected to the sink.

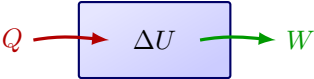
heat
source

C_1

C_2

C_3

heat
sink



system

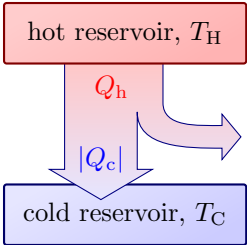
hot reservoir, T_H

Q_h

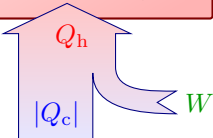
$|Q_c|$

W

cold reservoir, T_C



hot reservoir, T_H



cold reservoir, T_C