Chapter 6, Problem 65.

The inductors in Fig. 6.87 are initially charged and are connected to the black box at $t = 0$. If $i_1(0) = 4$ A, $i_2(0) = -2$ A, and $v(t) = 50e^{-200t}$ mV, t 0$, find:

(a). the energy initially stored in each inductor,
(b). the total energy delivered to the black box from $t = 0$ to $t = \infty$,
(c). $i_1(t)$ and $i_2(t)$, t 0,
(d). $i(t)$, t 0.

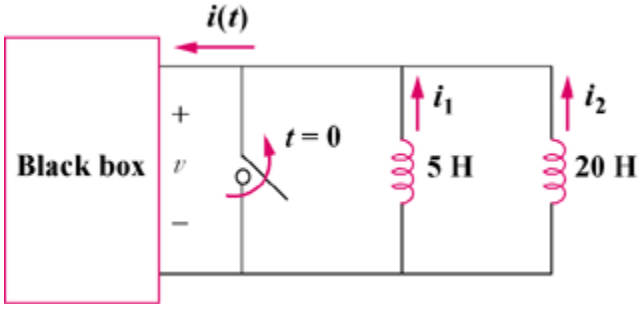

Figure 6.87
For Prob. 6.65.