

19.51. In a certain process, $2.15 \times 10^5 \text{ J}$ of heat is liberated by a system, and at the same time the system contracts under a constant external pressure of $9.50 \times 10^5 \text{ Pa}$. The internal energy of the system is the same at the beginning and end of the process. Find the change in volume of the system. (The system is *not* an ideal gas.)