## **Chapter 4 Question #13**

$$\delta q = c_p dT - vdp$$

This form of the First Law of Thermodynamics is valid for:

- All processes
- 2) Processes where changes in KE and PE are zero
- Quasi-static processes where changes in KE and PE are zero
- 4) Quasi-static processes of an ideal gas where changes in KE and PE are zero
- 5) All quasi-static processes of an ideal gas
- 6) All quasi-static processes
- 7) None of the above

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Chapter 4 Question 13 Answer:  (4) Quasi-static processes of an ideal gas where changes in kinetic and potential energy are zero	