of  $(\partial e/\partial p)_{v}$  provides no guarantee that  $C_{v}$  and  $(\partial p/\partial T)_{v}$  are also constant. In fact different sets of values of  $C_{v}$  and  $(\partial p/\partial T)_{v}$  that satisfy the condition of constant  $(\partial e/\partial p)_{v}$  can be associated with different (T-p-v) equations of state that will give different values of shock temperature.

It is concluded that the values of shock temperature calculated along the isontropes are more realistic than those that would be calculated with models based on less thermodynamic information.

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