$dT_c/dP = -100 \pm 40 \times 10^{-6}$  °K bar<sup>-1</sup>, which results in the values of  $\partial \ln T_c/\partial \ln V$  and  $\partial \ln J/\partial \ln V$  given in Table 1.<sup>10</sup>

The different measurements yield values of  $\partial lnJ/\partial lnV$  which are always positive and average to  $\pm 2.4 \pm 0.5$ .<sup>11</sup> It seems that the <u>positive</u> strain-dependence of the s-d exchange interaction approximately cancels the decrease of the susceptibility of the Pd matrix with increasing volume. This results in a small negative magnetostriction (since  $\mu \sim JX$ from Eq. (1)) and positive strain-dependence of  $T_c$  (since  $T_c \sim J^2X$  from Eq. (4)). It is interesting to note that in pure Pd the <u>negative</u> strain-dependence of the exchange interaction between the itinerant carriers approximately cancels the increase of the density of states with increasing volume, so that the magnetostriction is relatively small and negative as in the PdFe alloys, but for a quite different reason.<sup>12</sup>

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- 6 -