

SPECIFIC HEAT JUMP AND THERMODYNAMIC CRITICAL FIELD FOR CALCIUM UNDER THE PRESSURE AT 120 GPa

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The thermodynamic properties of the superconducting state in the *Pnma* phase of Calcium for the pressure value 120 GPa have been determined by using the Eliashberg model. It has been shown, that the value of the dimensionless ratio $\frac{\Delta C(T_C)}{C^N(T_C)}$ is higher than in the BCS theory. In contrast, the ratio $\frac{T_C C^N(T_C)}{H_C^2(0)}$ is smaller. The numerical results have been supplemented by the analytical approach.

9.7 cm

13.4 cm

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