

$$\begin{aligned}
 \rho &= \frac{nA_C}{\left(\frac{4R}{\sqrt{3}}\right)^3 N_A} \\
 &= \frac{(2 \text{ atoms/unit cell})(91.6 \text{ g/mol})}{\left\{ \left[\frac{(4)(1.37 \times 10^{-8} \text{ cm})}{\sqrt{3}} \right]^3 / (\text{unit cell}) \right\} (6.023 \times 10^{23} \text{ atoms/mol})} \\
 &= 9.60 \text{ g/cm}^3
 \end{aligned}$$

Therefore, its crystal structure is BCC.