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Physics students worldwide study his classic text Introduction to Solid State Physics, now in its 8th edition. He was a member of the U.S. National Academy of Sciences, elected in 1957. Kittel died on May 15, 2019 at the age of 102. Awards. Oliver E. Buckley Condensed Matter Prize, 1957; Berkeley Distinguished Teacher Award, 1970

Charles Kittel - Wikipedia

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The projection of the magnetic moment of the upper state along the field direction is $-J\mu_B$ and of the lower state is $J\mu_B$. The resultant magnetization for N atoms per unit volume is M , with $x = J\mu_B/k_B T$, $e^{x} - e^{-x}$. $M = (N_1 - N_2)J\mu_B = NJ\mu_B \cdot \frac{e^x - e^{-x}}{e^x + e^{-x}} = NJ\mu_B \tanh x$. (17) For $x \ll 1$, $\tanh x \approx x$, and we have $M = NJ\mu_B (J\mu_B/k_B T)$ (18)

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