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solid state physics group at Berkeley in 1951.

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Introduction to Solid State Physics is a classic condensed matter physics textbook originally written by American physicist Charles Kittel in 1953. The book has been highly influential and has seen widespread adoption; Marvin L. Cohen remarked in 2019 that Kittel's content choices in the original edition played a large role in defining the field of solid-state physics . [2]

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\hat{z} and $\hat{x} - \hat{y}$ are in the directions of two body diagonals of a cube. If θ is the angle between them, their scalar product gives $\cos \theta = -1/3$, whence $\theta = \cos^{-1}(-1/3) = 109.28^\circ$.

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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

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

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