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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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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 $-J-t$ and of the lower state is $J-t$. The resultant magnetization for N atoms per unit volume is M , with $x = J-tB/kBT$, $e^X - e^{-X}$. $M = (N_1 - N_2)J-t = NJ-t \cdot \frac{e^x - e^{-x}}{e^x + e^{-x}} = NJ-t \tanh x$. (17) For $x \sim 1$, $\tanh x = x$, and we have $M = NJ-t(J-tB/kBT)$ (18)

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