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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

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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  $-J\mu_B$  and of the lower state is  $J\mu_B$ . The resultant magnetization for  $N$  atoms per unit volume is  $M$ , with  $x = J\mu_B/kBT$ ,  $e^{x} - e^{-x}$ .  $M = (N\uparrow - N\downarrow)J\mu_B = N\mu_B \frac{e^x - e^{-x}}{e^x + e^{-x}} = N\mu_B \tanh x$ . (17) For  $x \ll 1$ ,  $\tanh x = x$ , and we have  $M = N\mu_B(J\mu_B/kBT)$  (18)

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