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Charles Kittel Solid State Physics

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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

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The projection of the magnetic moment of the upper state along the field direction is μ_B and of the lower state is $-\mu_B$. The resultant magnetization for N atoms per unit volume is M , with $x = \mu_B B / k_B T$, $M = (N \mu_B - N \mu_B) \tanh x = 2N \mu_B \tanh x$. (17) For $x \ll 1$, $\tanh x \approx x$, and we have $M = 2N \mu_B (k_B T)^{-1} \mu_B B$ (18)

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