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Charles Kittel did his undergraduate work in physics at M.I.T and at the Cavendish Laboratory of Cambridge University. He received his Ph.D. from the University of Wisconsin. He worked in the solid state group at Bell Laboratories, along with Bardeen and Shockley, leaving to start the theoretical solid state physics group at Berkeley in 1951.

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Introduction to Solid State Physics: Kittel, Charles ...

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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Introduction to Solid State Physics - Wikipedia

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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  $-J_z$  and of the lower state is  $J_z$ . The resultant magnetization for  $N$  atoms per unit volume is  $M$ , with  $x = J_z/k_B T$ ,  $M = (N\mu_B - N\mu_B) \tanh x = N\mu_B \tanh x$ . (17) For  $x \ll 1$ ,  $\tanh x = x$ , and we have  $M = N\mu_B (J_z/k_B T)$  (18)

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