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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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Kittel c. introduction to solid state physics 8 th edition - solution manual. 1. CHAPTER 1 1. The vectors  $\hat{x}$ ,  $\hat{y}$ ,  $\hat{z}$  and  $\hat{x} + \hat{y}$ ,  $\hat{x} + \hat{z}$ ,  $\hat{y} + \hat{z}$  are in the directions of two body diagonals of a cube. If  $\theta$  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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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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Charles Kittel - Wikipedia

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The projection of the magnetic moment of the upper state along the field direction is  $\mu_B J$  and of the lower state is  $-\mu_B J$ . The resultant magnetization for N atoms per unit volume is  $M$ , with  $x = \mu_B J / k_B T$ ,  $e^x - e^{-x} = (N - N_2)J - NJ_2 = NJ_2(x + \dots) = NJ_2 \tanh x$ . (17)  $e^x = e^x$ . For  $x \ll 1$ ,  $\tanh x = x$ , and we have  $M = NJ_2(\mu_B / k_B T)$  (18)

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