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Charles Kittel did his

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physics at M.I.T and at

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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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publication of the first edition over 50 years ago, Introduction to Solid State Physics has been the standard solid state physics text for physics students. The author's goal from the beginning has been to write a book that is accessible to undergraduates and consistently teachable.

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New York, NY: John  
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ISBN: 9780471415268.

A useful reference is:

Ashcroft, Neil W., and

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N. David Mermin. Solid State Physics. New York, NY: Holt, Rinehart and Winston, 1976. ISBN: 9780030839931.

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manual. 1. CHAPTER 1

1. The vectors  $\hat{x} + \hat{y} + \hat{z}$

and  $\hat{x} - \hat{y} + \hat{z}$

are in the directions of

two body diagonals of a

cube. If  $\theta$  is the angle

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between them, their  
scalar product gives  $\cos$   
 $\theta = -1/3$ , whence  $\theta = \cos^{-1}(-1/3) = 109^\circ 28'$   
 $\angle = 109^\circ 28'$   
 $\angle = 109^\circ 28' + 109^\circ 28' = 218^\circ 56'$

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Introduction to Solid State Physics, known colloquially as Kittel, is a classic condensed matter physics textbook 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

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that Kittel's content choices in the original edition played a large role in defining the field of solid-state physics.

**Introduction to Solid State Physics - Wikipedia**

Kittel, C. (2005)  
Introduction to Solid State Physics. 8th Edition, John Wiley & Sons, New York.

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