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

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Solid-state physics is the study of rigid matter, or solids, through methods such as quantum mechanics, crystallography, electromagnetism, and metallurgy. It is the largest branch of condensed matter physics. Solid-state physics studies how the large-scale properties of solid materials result from their atomic -scale properties.

Solid-state physics - Wikipedia
Introduction to Solid State Physics, 8th Edition Charles Kittel CHAPTER 1: CRYSTAL STRUCTURE. Periodic Array of Atoms. Fundamental Types of Lattices. Index System for Crystal Planes. Simple Crystal Structures. Direct Imaging of Atomic Structure. Nonideal Crystal Structures.

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