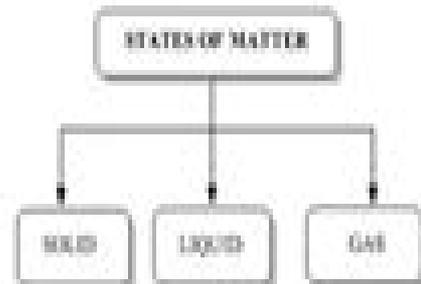


SOLID STATE

Matter - Everything in our surroundings is known as matter that can be in three states. In our day to day life solids play a crucial role to pursue different



Types of Solids

(a) Crystalline solids: In a single crystal the regularity of arrangement of the pattern extends throughout the solid and all points are completely equivalent, as NaCl.

Close Packing in Three Dimensions

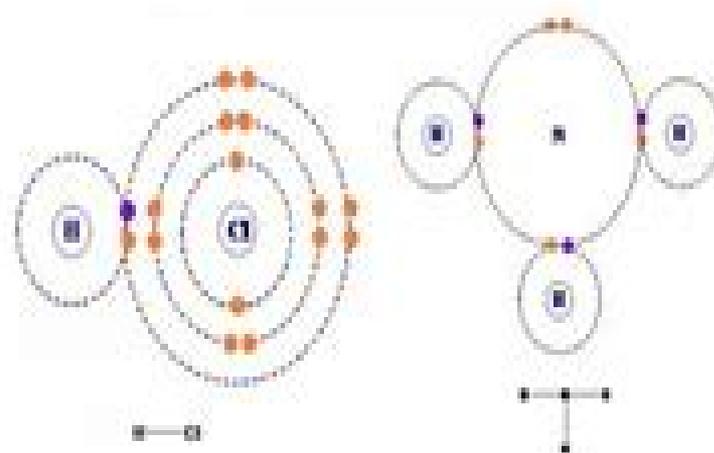
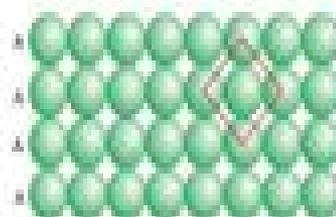
All real structures are three dimensional structures that are obtained by stacking two dimensional layers one above the other in a square close-packed and hexagonal close-packed manner. It can be categorized into two types:

Three dimensional close packing from two dimensional square close-packed layers

The second layer is placed over the first layer in such a way that the spheres of the upper layer are exactly above those of the first layer in this arrangement of spheres, both the

Stacking can be done in two ways....

- AAA Pattern:** The second row can be placed in contact with the first row in such a way that the spheres of second row are exactly above the first row. The spheres of the two rows are aligned horizontally as well as vertically. Let the first row be 'A' type row and the second row is also of 'A' type due to its similarity with the first one. This type of arrangement is called AAA pattern also known as square close packing (SCP). Each sphere is in contact with four of its surrounding ones. Thus, coordination number is 4.



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David Kirk



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Analysis and Design of Analog Integrated Circuits Paul R. Gray, Paul J. Hurst, Stephen H. Lewis, Robert G. Meyer, 2024-01-31 ANALYSIS AND DESIGN OF ANALOG INTEGRATED CIRCUITS Authoritative and comprehensive textbook on the fundamentals of analog integrated circuits with learning aids included throughout Written in an accessible style to ensure complex content can be appreciated by both students and professionals this Sixth Edition of Analysis and Design of Analog Integrated Circuits is a highly comprehensive textbook on analog design offering in depth coverage of the fundamentals of circuits in a single volume To aid in reader comprehension and retention supplementary material includes end of chapter problems plus a Solution Manual for instructors In addition to the well established concepts this Sixth Edition introduces a new super source follower circuit and its large signal behavior frequency response stability and noise properties New material also introduces replica biasing describes and analyzes two op amps with replica biasing and provides coverage of weighted zero value time constants as a method to estimate the location of dominant zeros pole zero doublets including their effect on settling time and three examples of circuits that create doublets the effect of feedback on pole zero doublets and MOS transistor noise performance including a thorough treatment on thermally induced gate noise Providing complete coverage of the subject Analysis and Design of Analog Integrated Circuits serves as a valuable reference for readers from many different types of backgrounds including senior undergraduates and first year graduate students in electrical and computer engineering along with analog integrated circuit designers

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