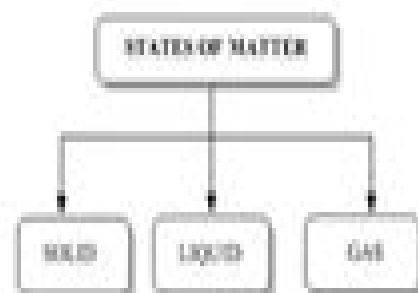


SOLID STATE

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. ex: NaCl

Close Packing in Three Dimensions

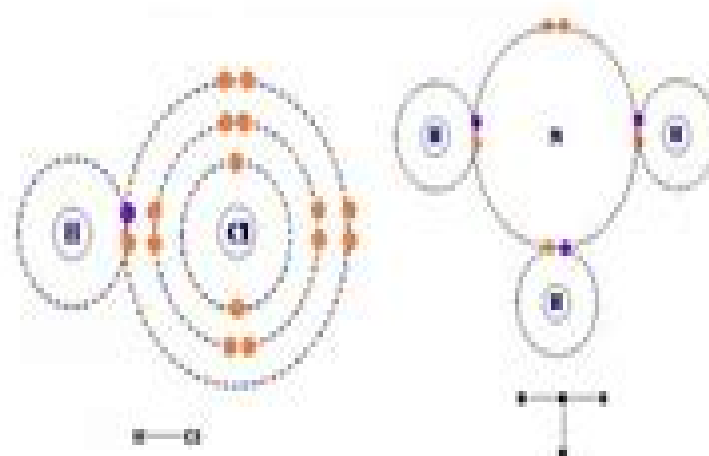
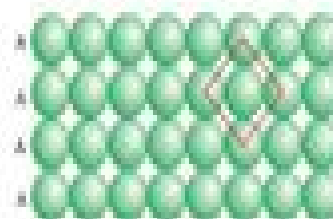
All real structures are three dimensional structures that are obtained by stacking two dimensional layers one above the other in a square close-packed and hexagonal close-packed manner. It can be categorized into two types:

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....

1. **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**.



Notes Street

Solid State Chemistry 12 Class Chapter

Priti Singhal

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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Solid State Electrochemistry II Vladislav V. Kharton, 2012-12-21 The ideal addition to the companion volume on fundamentals methodologies and applications this second volume combines fundamental information with an overview of the role of ceramic membranes electrodes and interfaces in this important interdisciplinary and rapidly developing field Written primarily for specialists working in solid state electrochemistry this first comprehensive handbook on the topic focuses on the most important developments over the last decade as well as the methodological and theoretical aspects and practical applications This makes the contents equally of interest to material physical and industrial scientists and to physicists Also available as a two volume set NCERT Chemistry Class 12 Dr. S.C. Rastogi, ,Er. Meera Goyal, 2025-02-21 1 SOLID STATE 2 SOLUTIONS 3 ELECTRO CHEMISTRY 4 CHEMICAL KINETICS 5 SURFACE CHEMISTRY 6 GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF ELEMENTS 7 p BLOCK ELEMENTS 8 d And f BLOCK ELEMENTS 9 COORDINATION COMPOUNDS AND ORGANOMETALLICS 10 HALOALKANES AND HALOARENES 11 ALCOHOLS PHENOLS AND ETHERS 12 ALDEHYDES KETONES AND CARBOXYLIC ACIDS 13 ORGANIC COMPOUNDS CONTAINING NITROGEN Amines 14 BIOMOLECULES 15 POLYMERS 16 CHEMISTRY IN EVERYDAY LIFE APPENDIX 1 Important Name Reactions and Process 2 Some Important Organic Conversions 3 Some Important Distinctions Log Antilog Table Board Examination Papers

SIMPLE TRICKS & TIPS IN CHEMISTRY PART-2 (For Class 12) Dr. Monica Bhandari, 2021-11-24 A STRATEGIC BOOK THAT GIVES YOU A SURE SHOT COMPETITIVE EDGE Competitive exams test the conceptual knowledge of students along with time management skills However several students generally do not get the expected rank score despite knowing all the concepts It is an irony that students spend several precious hours and parents spend huge money running from one coaching institute to another but nobody guides them on time management right from the beginning and when students attend crash courses about 1 2 months before competitive exam they hardly have any time to master these skills The author of this book strongly believes that with proper and timely strategic guidance on time management every student can achieve well in Competitive Exams This book has the strength to cover the entire syllabus in 10 days For fast track coverage of the entire course online coaching students can contact the author at monicabhandari books gmail com This book encompasses 10 chapters Each chapter starts with a quick review of the important concepts followed by shortcuts tips tricks The strategic manner in which topics are inter linked in this book will help in building a strong conceptual clarity among the students For illustration questions from previous years papers of JEE and NEET with accurate shortest possible solutions are provided along with each topic The questions are based on the author s interactions with students who had appeared in the aforementioned competitive exams in the past years Solving the carefully handpicked questions given in this book students will find themselves at ease with the Chemistry paper in any Competitive as well as Board examination This book will enable the students with advanced abilities to attempt maximum number of questions accurately within the stipulated time

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