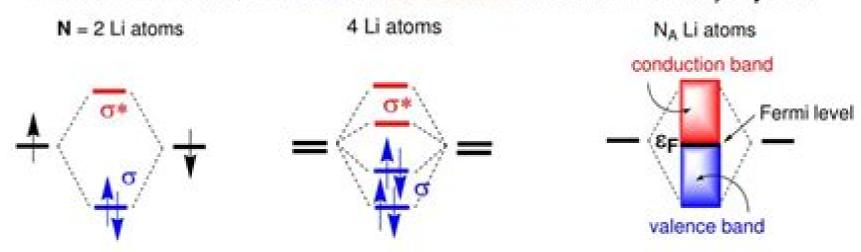
Lectures 21-22

Solid state materials. Electronic structure and conductivity 1) Band theory

- The electronic structure of solids can also be described by MO theory.
- A solid can be considered as a supermolecule.
- One mole of atoms (N_A), each with X orbitals in the valence shell contributes X moles of atomic orbitals producing X moles of MO's.

Consider qualitatively bonding between **N** metal atoms of ns¹ configuration (Li, Na etc) arranged in a chain; **N** = 2, 4, N_A. Assume that **X**=1 for simplicity.

- In the case of N ~ N_A atoms they form not bonds but bands.
- The band appearing in the bonding region is called valence band. The antibonding region is called conduction band.
- In the case of metals the valence and conduction bands are immediately adjacent.



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Fundamentals Of Solid-state Electronics: Solution Manual Chih Tang Sah, 1996-09-30 This Solution Manual a companion volume of the book Fundamentals of Solid State Electronics provides the solutions to selected problems listed in the book Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state of the art transistor reliability problems which have been taught to advanced undergraduate and graduate students This book is also available as a set with Fundamentals of Solid State Electronics and Fundamentals of Solid State Electronics Study Guide **Understanding Solid State** Electronics Don L. Cannon, 1997-05 For devices courses found in electronics technology and electronics engineering technology departments Written in an engaging personable style this guide to solid state electronic devices explores the latest in semiconductor theory and applications showing how semiconductors fit within circuits how circuits and logic gates make decisions and how to properly adapt solid state devices into a circuit design Designed with the non technical student in mind it requires minimal mathematical knowledge and goes out of its way to explain new ideas and concepts step by step in a clear succinct and easily understandable manner **Introduction to Solid State Electronics** F.F.Y. Wang, 2012-12-02 This textbook is specifically tailored for undergraduate engineering courses offered in the junior year providing a thorough understanding of solid state electronics without relying on the prerequisites of quantum mechanics In contrast to most solid state electronics texts currently available with their generalized treatments of the same topics this is the first text to focus exclusively and in meaningful detail on introductory material The original text has already been in use for 10 years In this new edition additional problems have been added at the end of most chapters These problems are meant not only to review the material covered in the chapter but also to introduce some aspects not covered in the text An amended Solutions Manual is in preparation Solid State Electronic Devices Ben G. Streetman, 1980 **Solid State Physical Electronics** Aldert Van der Ziel,1976 Introduction to Solid-state Electronics Ija P. Ipatova, Vladimir Vasil'evich Mitin, 1996-01 Introduction to Solid State Electronics combines a modern presentation of semiconductor physics with a description of the principles of semiconductor devices It unites the authors extensive teaching and research experience with the requirements of an introductory graduate course in Solid State Electronics for engineering students Since a crystal is an object of high symmetry some simple techniques which do not require knowledge of the mathematical groups at the professional level are used for the application of symmetry to the analysis of band structures The textbook outlines the properties of low dimensional structures in parallel with those of bulk materials The authors have made the mathematical derivations both as self contained and as simple as possible without using arguments of the type it can be easily shown that This technique is just one of many that enables the book to provide a clear comprehensive understanding of the main properties of semiconductors

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A topic on common collector configuration is added to the chapter XIII A new chapter on logic gates is intriduced at the end Keeping in view the present style of university Question papers a number of very short short and long thoroughly revised and corrected to remove the errors which crept into earlier editions Organic Electronic Materials R. Farchioni, 2001-05-22 This review and tutorial offers a well balanced survey of the fundamental ideas and relevant trends in modern research on both conducting polymers and organic molecular crystals The reviews provide a more complete understanding of the underlying physics of the materials through the discussion of selected interconnected topics. The volume constitutes an insightful treatise and handy reference for researchers and students in the field DDC Retrieval and Indexing Terminology Defense Documentation Center (U.S.).,1975 **Band Theory and Electronic Properties of Solids John** Singleton, 2001-08-30 This textbook attempts to reveal in a quantitative and fairly rigorous fashion how band theory leads to the everyday properties of materials Solid State Physics, Solid State Device And Electronics. C M Kachhava, 2003 This Book Is Designed To Cater The Need Of Students Of B Sc Pass And Hons Students Of Various Indian Universities On The Basis Of Model Curriculum Recently Proposed By Cdc Of Ugc The Book Comprises 569 Figures 266 Examples 233 Problems And 336 Objective Questions Distributed In 13 Chapters Each Problem Is Followed By Its Answer The Inclusion Of A Large Number Of Problems And Review Questions Are Aimed At Evaluating The Degree Of Conceptual Comprehension A Student Has Acquired As A Result Of Studying The Book The Solved Examples Are Targetted To Illustrate The Theoretical Ideals Described In The Text Although The Book Is Aimed To Target B Sc Students Yet Chemists Material Scientists And Electrical Engineers Would Find It Useful Not Only In Persuing Their Studies But Also In Professional Applications The Existence Of Sufficient Number Of Objective Questions Are Framed To Help The Student Immensely To Encounter Competitive Examinations Like Net Slet Ics And State Civil Services SOLID STATE DEVICES NAIR, B. SOMANATHAN, DEEPA, S. R.,2018-11-01 Designed as a text for undergraduate students of engineering in Electrical Electronics and Computer Science and IT disciplines as well as undergraduate students B Sc of physics and electronics as also for postgraduate students of physics and electronics this compact and accessible text endeavours to simplify the theory of solid state devices so that even an average student will be able to understand the concepts with ease The authors Prof Somanathan Nair and Prof S R Deepa with their rich and long experience in teaching the subject provide a detailed discussion of such topics as crystal structures of semiconductor materials Miller indices energy band theory of solids energy level diagrams and mass action law Besides they give a masterly analysis of topics such as direct and indirect gap materials Fermi Dirac statistics electrons in semiconductors Hall effect PN junction diodes Zener and avalanche breakdowns Schottky barrier diodes bipolar junction transistors MOS field effect transistors Early effect Shockley diodes SCRs TRIAC and IGBTs In the Second Edition two new chapters on opto electronic devices and electro optic devices have been added The text has been thoroughly revised and updated A number of solved problems and objective type questions have been included to help students develop grasp of the

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