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Crystallography is the experimental science of the arrangement of atoms in solids. The word "crystallography" derives from the Greek words *crystallon* = cold drop / frozen drop, with its meaning extending to all solids with some degree of transparency, and *grapho* = write. A crystalline solid: HRTEM image of strontium titanate.

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~~15. Introduction to Crystallography | Crystalline ...~~

X-ray crystallography is a tool used for determining the atomic and molecular structure of a crystal. The underlying principle is that the crystalline atoms cause a beam of X-rays to diffract into many specific directions (Fig. 2.10). By measuring the

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angles and intensities of these diffracted beams, a crystallographer can produce a 3D picture of the density of electrons within the crystal.

~~X-Ray Crystallography - an overview | ScienceDirect Topics~~

Crystallography, branch of science that deals with discerning the arrangement and bonding of atoms in crystalline solids and with the geometric structure of crystal lattices.

Classically, the optical properties of crystals were of value in mineralogy and chemistry for the identification of substances.

~~crystallography | Definition & Facts | Britannica~~

Overview. Crystallography is the science that examines crystals, which can be found everywhere in nature—from salt

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The Solid State to snowflakes to gemstones. Crystallographers use the properties and inner structures of crystals to determine the arrangement of atoms and generate knowledge that is used by chemists, physicists, biologists, and others.

First published in 1964, as the second edition of a 1939 original, this well-known textbook presents the fundamental principles of crystal chemistry at a level that was suitable for undergraduate students of chemistry, physics, metallurgy, mineralogy and related subjects at the time of its publication. The first part deals with the general principles of crystal architecture in terms of predominant types of binding forces

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between the atoms themselves. There are chapters on atomic structure, and the ionic, covalent, metallic and van der Waals bonds. The second part contains a discussion of systematic crystal chemistry in which the physical and chemical properties of crystalline substances are related to their structures.

Clear, concise explanation of logical development of basic crystallographic concepts. Topics include crystals and lattices, symmetry, x-ray diffraction, and more. Problems, with answers. 114 illustrations. 1969 edition.

As a self-study guide, course primer or teaching aid, Borchartt-Ott's Crystallography is the perfect textbook for

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students and teachers alike. In fact, it can be used by chemists, mineralogists, physicists and geologists. Based on the author's more than 20 years of teaching experience, the book has numerous line drawings designed especially for the text and a large number of exercises - with solutions - at the end of each chapter. The fourth edition of the original German text has been translated into English for an international readership. The heart of the book is firmly fixed in geometrical crystallography. It is from the concept of the space lattice that symmetry operations, Bravais lattices, space groups and point groups are all developed. Molecular symmetry and crystal forms are treated. Much emphasis is placed on the correspondence between point groups and space groups. The sections on crystal chemistry and X-ray diffraction are

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intended as an introduction to these fields.

This classic book offers a comprehensive introduction to the subject of crystallography. Split into two parts: 'The External Symmetry of Crystals' and the 'Symmetry of the Internal Arrangement', and each broken down into many chapters, this book would make an invaluable addition to the bookshelf of anyone with an interest in the subject. Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork. --

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Crystallography Made Crystal Clear is designed to meet the need for an X-ray analysis that is between brief textbook sections and complete treatments. The book provides non-crystallographers with an intellectually satisfying explanation of the principles of how protein models are gleaned from X-ray analysis. The understanding of these concepts will foster wise use of the models, including the recognition of the strengths and weaknesses of pictures or computer graphics.

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Since proteins comprise the majority of the mass of macromolecules in cells and carry out biologically important tasks, the book will be of interest to biologists. Provides accessible descriptions of principles of x-ray crystallography, built on simple foundations for anyone with a basic science background Leads the reader through clear, thorough, unintimidating explanations of the mathematics behind crystallography Explains how to read crystallography papers in research journals If you use computer-generated models of proteins or nucleic acids for: Studying molecular interactions Designing ligands, inhibitors, or drugs Engineering new protein functions Interpreting chemical, kinetic, thermodynamic, or spectroscopic data Studying protein folding Teaching macromolecule structure, and if you want to

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read new structure papers intelligently; become a wiser user of macromolecular models; and want to introduce undergraduates to the important subject of x-ray crystallography, then this book is for you.

In the last ten years, the chemistry and physics of materials with layered structures became an intensively investigated field in the study of the solid state. Research into physical properties of these crystals and especially investigations of their physical anisotropy related to the structural anisotropy has led to remarkable and perplexing results. Most of the layered materials exist in several polytypic modifications and can include stacking faults. The crystal structures are therefore complex and it became apparent that there was a

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great need for a review of the crystallographic data of materials approximating two-dimensional solids. This second volume in the series 'Physics and Chemistry of Materials with Layered Structures' has been written by specialists of different classes of layered materials. Structural data are reviewed and the most important relations between the structure and the chemical and physical properties are emphasized. The first three contributions are devoted to the transition metal dichalcogenides whose physical properties have been investigated in detail. The crystallographic data and crystal growth conditions are presented in the first paper. The second paper constitutes an incisive review of the phase transformations and charge density waves which have been observed in the metallic dichalcogenides. In two contributions

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The layered structures of newer ternary compounds are described and the connection between structure and non-stoichiometry is discussed.

Metal ions play an important role in analytical chemistry, organometallic chemistry, bioinorganic chemistry, and materials chemistry. This book, Descriptive Inorganic Chemistry Researches of Metal Compounds, collects research articles, review articles, and tutorial description about metal compounds. To perspective contemporary researches of inorganic chemistry widely, the kinds of metal elements (typical and transition metals including rare earth; p, d, f-blocks) and compounds (molecular coordination compounds, ionic solid materials, or natural metalloenzyme)

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The Solid State or simple substance (bulk, clusters, or alloys) to be focused are not limited. In this way, review chapters of current researches are collected in this book.

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