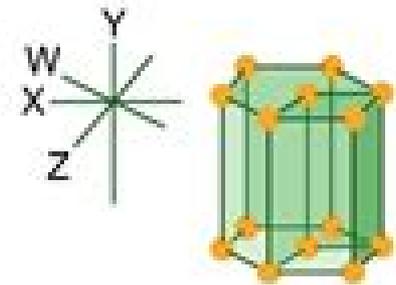
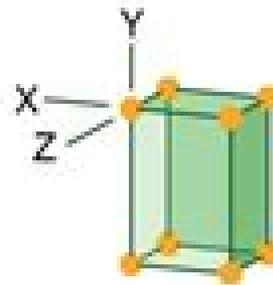
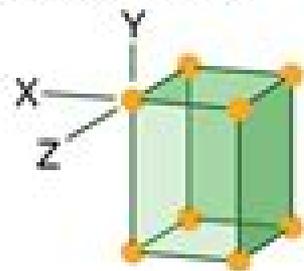
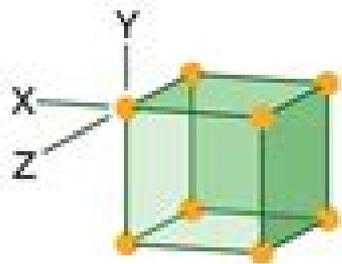


The seven primitive crystal systems



Isometric (or cubic)

All three axes are equal in length, and all are perpendicular to one another.

Tetragonal

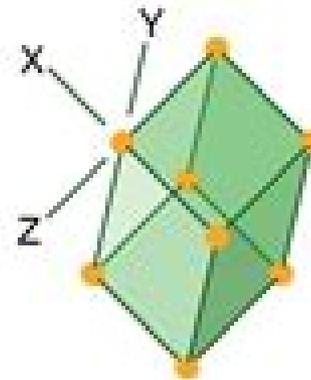
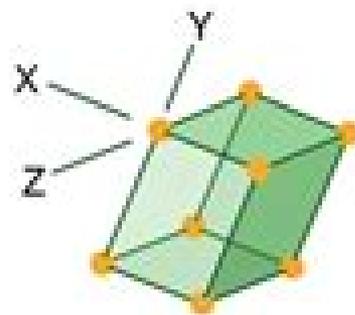
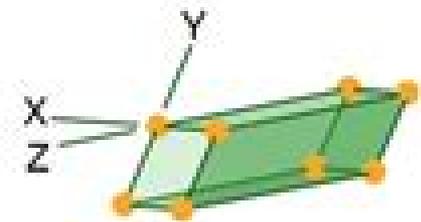
Two of the three axes are equal in length, and all three axes are perpendicular to one another.

Orthorhombic

All three axes are unequal in length, and all are perpendicular to one another.

Hexagonal

Of four axes, three are of equal length, are separated by equal angles, and lie in the same plane. The fourth axis is perpendicular to the plane of the other three axes. Hexagonal cells have lattice points in each of the two six-sided faces.



Triclinic

All three axes are unequal in length, and none is perpendicular to another.

Monoclinic

All three axes are unequal in length, and two axes are perpendicular to each other.

Rhombohedral (or trigonal)*

All three axes are of equal length, and none of the axes is perpendicular to another, but the crystal faces all have the same size and shape.

Crystal Physics

Ralph Walter Graystone Wyckoff



Crystal Physics:

A Text-Book on Crystal Physics W. A. Wooster, 2016-05-26 Originally published in 1938 this textbook was primarily designed for university students to provide a solid grounding in the science of crystal physics Previous knowledge of materials science is considered a prerequisite for the content as well as a solid understanding of physics mathematics and crystallography Throughout this book a two fold purpose has been kept in view to present the classical treatment of the physical properties of crystals in terms of tensor notation and also to indicate the lines of development of modern theoretical and experimental research Chapters are broad in scope detailed and clearly written chapter titles include Conduction Electric induction and Elasticity Multiple diagrams are included throughout for reference Encompassing the increasingly interdisciplinary nature of the subject and its rapid scientific developments this textbook will be of significant value to students of physics as well to anyone with an interest in crystallography geology and the history of education **Crystal Physics** German Stepanovich Zhdanov, 1965 **Melting and Crystal Structure** Alfred René Ubbelohde, 1965 approach to the study of liquids through the crystalline state of matter and through consideration of what can happen to it on melting Pref **Text-book on Crystal Physics** William Alfred Wooster, 1938 **Problems in Crystal Physics** N. V. Perelomova, Marianna Mamedovna Tagieva, 1983 **Experimental Crystal Physics** William Alfred Wooster, 1957 List of original papers An Introduction to Crystal Physics Ervin Hartmann, 1984 **Crystal Physics; Macroscopic Physics of Anisotropic Solids** Hellmut J. Juretschke, 1974 **THE CRYSTAL STRUCTURE OF SOME METALLIC SULFIDES.** Lewis Stephen Ramsdell, 1925 **Bibliography of Crystal Structure** Jared Kirtland Morse, 1928 X Rays and Crystal Structure William Henry Bragg, Sir William Lawrence Bragg, 1925 **World Directory of Crystallographers** Allan L. Bednowitz, Armin P. Segmüller, 2013-04-17 A brief historical account of the background leading to the publication of the first four editions of the World Directory of Crystallographers was presented by G Boom in his preface to the Fourth Edition published late in 1971 That edition was produced by traditional typesetting methods from compilations of biographical data prepared by national Sub Editors The major effort required to produce a directory by manual methods provided the impetus to use computer techniques for the Fifth Edition The account of the production of the first computer assisted Directory was described by S C Abrahams in the preface of the Fifth Edition Computer composition which required a machine readable data base offered several major advantages The choice of typeface and range of characters was flexible Corrections and additions to the data base were rapid and once established it was hoped updating for future editions would be simple and inexpensive The data base was put to other Union uses such as preparation of mailing labels and formulation of lists of crystallographers with specified common fields of interest The Fifth Edition of the World Directory of Crystallographers was published in June of 1977 the Sixth in May of 1981 The Subject Indexes for the Fifth and Sixth Editions were printed in 1978 and 1981 respectively both having a limited distribution **A Dictionary of Applied Physics** Richard Glazebrook, 1923 The

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(U.S.),Callie Hull,1927 *Crystals and the Fine-structure of Matter* Friedrich Rinne,1924 **World Directory of
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