Shih-Lin Chang

Multiple Diffraction of X-Rays in Crystals



Multiple Diffraction Of Xrays In Crystals Solidstate Sciences Ser

Boris K. Vainshtein, Vladimir M. Friedkin, Vladimir L. Indenbom

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wavelength of radiation sources Recent progress in the application of this particular diffraction technique to surfaces thin films and less ordered systems has demonstrated the diver sity and practicability of the technique for structural research in condensed matter physics materials sciences crystallography and X ray optics. The first book on this subject Multiple Diffraction of X Rays in Crystals was published in 1984 and intended to give a contemporary review on the fundamental and Structure of Crystals Boris K. Vainshtein, Vladimir M. Friedkin, Vladimir L. application aspects of this diffraction Indenbom, 2013-03-14 Modern Crystallography provides an encyclopedic exposition of the field in four volumes written by Russian scientists Structures of Crystals describes the ideal and real atomic structure of crystals as well as their electronic structures The fundamentals of chemical bonding between atoms are given and geometric representations in the theory of crystal structure and crystal chemistry as well as lattice energy are considered. The important classes of crystal structures in inorganic compounds as well as the structure polymers liquid crystals biological crystals and macromolecules are treated This second edition is complemented with recent data on many types of crystal structures fullerenes high temperature superconductors minerals liquid crystals etc Modern Crystallography 2 Boris K. Vainshtein, Vladimir M. Fridkin, Vladimir L. Indenbom, 2012-12-06 Structure of Crystals describes the ideal and real atomic structure of crystals as well as the electronic structures The fundamentals of chemical bonding between atoms are given and the geometric representations in the theory of crystal structure and crystal chemistry as well as the lattice energy are considered The important classes of crystal structures in inorganic compounds as well as the structures of polymers liquid crystals biological crystals and macromolecules are treated This edition is complemented with recent data on many types of crystal structures e g the structure of fullerenes high temperature superconductors minerals and liquid crystals VLSI Technology Yasuo Tarui,2013-03-12 The origin of the development of integrated circuits up to VLSI is found in the invention of the transistor which made it possible to achieve the action of a vacuum tube in a semiconducting solid. The structure of the transistor can be constructed by a manufacturing technique such as the intro duction of a small amount of an impurity into a semiconductor and in ad dition most transistor characteristics can be improved by a reduction of dimensions These are all important factors in the development Actually the microfabrication of the integrated circuit can be used for two purposes namely to increase the integration density and to obtain an improved perfor mance e g a high speed When one of these two aims is pursued the result generally satisfies both We use the Engl ish translation very large scale integration VLSII for Cho LSI in Japanese In the United States of America however similar technology is bei ng developed under the name very hi gh speed integrated circuits VHSII This also originated from the nature of the integrated circuit which satisfies both purposes Fortunately the Japanese word Cho LSI has a wider meaning than VLSI so it can be used in a broader area However VLSI has a larger industrial effect than VHSI Advances in Imaging and Electron Physics Peter W. Hawkes, 2005-06-15 Advances in Imaging and Electron Physics merges two long running serials Advances in Electronics and Electron Physics and Advances in

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