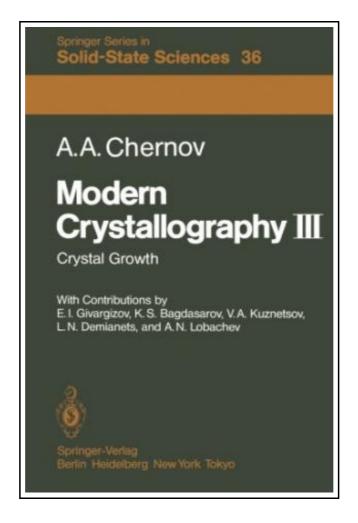
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Springer. Paperback. Book Condition: New. Paperback. 517 pages. Dimensions: 9.0in. x 6.1in. x 1.1in.Early in this century, the newly discovered x-ray diffraction by crystals made a complete change in crystallography and in the whole science of the atomic structure of matter, thus giving a new impetus to the development of solid-state physics. Crystallographic methods, pri- marily x-ray diffraction analysis, penetrated into materials sciences, mol- ecular physics, and chemistry, and also into many other branches of science. Later, electron and neutron diffraction structure analyses be- came important since they not only complement x-ray data, but also supply new information on the atomic and the real structure of crystals. Electron microscopy and other modern methods of investigating mat- ter-optical, electronic paramagnetic, nuclear magnetic, and other res- onance techniques-yield a large amount of information on the atomic, electronic, and real crystal structures. Crystal physics has also undergone vigorous development. Many re- markable phenomena have been discovered in crystals and then found various practical applications. Other important factors promoting the development of crystallog- raphy were the elaboration of the theory of crystal growth (which brought crystallography closer to thermodynamics and physical chem- istry) and the development of the various methods of growing synthetic crystals dictated by practical needs. Man-made crystals became increas- ingly important for physical investigations, and they rapidly invaded technology. The production . of synthetic crystals made a tremendous impact on the traditional branches: the mechanical treatment of mate- rials, precision instrument making, and the jewelry industry. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne, TN. Paperback.



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