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there is no question that the field of solid state electronics which essentially began with work at bell laboratories just after world war ii has had a profound impact on today's society what is not nearly so widely known is that advances in the art and science of crystal growth underpin this technology single crystals once valued only for their beauty are now found in one form or another in most electronic optoelectronic and numerous optical devices these devices in turn have permeated almost every home and village throughout the world in fact it is hard to imagine what our electronics industry much less our entire civilization would have been like if crystal growth scientists and engineers were unable to produce the large defect free crystals required by device designers this book brings together two sets of related articles describing advances made in crystal growth science and technology since world war ii one set is from the proceedings of a symposium held in august 2002 to celebrate 50 years of progress in the field of crystal growth the second contains articles previously published in the newsletter of the american association for crystal growth in a series called milestones in crystal growth the first section of this book contains several articles which describe some of the early history of crystal growth prior to the electronics revolution and upon which modern crystal growth science and technology is based this is followed by a special article by prof sunagawa which provides some insight into how the successful japanese crystal growth industry developed the next section deals with crystal growth fundamentals including concepts of solute distribution interface kinetics constitutional supercooling morphological stability and the growth of dendrites the following section describes the growth of crystals from melts and solutions while the final part involves thin film growth by mbe and omvpe these articles were written by some of the most famous theorists and crystal growers working in the field they will provide future research workers with valuable insight into how these pioneering discoveries were made and show how their own research and future devices will be based upon these developments articles written by some of the most famous theorists and crystal growers working in the field valuable insight into how pioneering discoveries were made show how their own research and future devices will be based upon these developments

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if an ion in a crystal is replaced by an impurity ion with a different charge compensation for the charge difference must be accomplished this is usually done by an intrinsic defect i e a lattice vacancy or interstitial host ion in such a way to balance the excess or deficit of charge the introduction of cation vacancies along with divalent cation impurities in alkali halides is a familiar example if these crystals are carefully annealed nearly all of the compensating defects migrate to the impurity ions to form impurity defect complexes it is the behavior of these complexes that are the principal concern in this paper almost invariably such complexes are dipolar in character and when subjected to an electric or mechanical stress field they will tend to realign to an orientation of lower energy provided the thermal activation is sufficiently great if the complex consists of an impurity vacancy couple re orientation may occur either by the vacancy moving around the impurity or by an exchange of positions of the partners in general the activation energy for these two distinct reorientation paths is different if the complex consists of an impurity interstitial couple interchange of positions is unlikely and reorientation is considered to occur exclusively by the motion of the interstitial around the vacancy

algebra as we know it today consists of many different ideas concepts and results a reasonable estimate of the number of these different items would be somewhere between 50 000 and 200 000 many of these have been named and many more could and perhaps should have a name or a convenient designation even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information if this happens one should be able to find enough information in this handbook to judge if it is worthwhile to pursue the quest in addition to the primary information given in the handbook there are references to relevant articles books or lecture notes to help the reader an excellent index has been included which is extensive and not limited to definitions theorems etc the handbook of algebra will publish articles as they are received and thus the reader will find in this third volume articles from twelve different sections the advantages of this scheme are two fold accepted articles will be published quickly and the outline of the handbook can be allowed to evolve as the various volumes are published a particularly important function of the handbook is to provide professional mathematicians working in an area other than their own with sufficient information on the topic in question if and when it is needed thorough and practical source of information provides in depth coverage of new topics in algebra includes references to relevant articles books and lecture notes

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