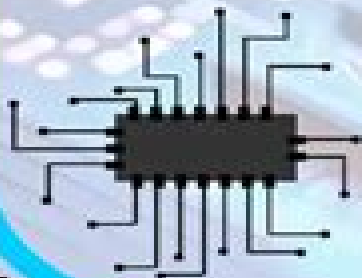


Radiation damage in crystals

- Radiation damage in crystals occurs when energetic particles displace atoms from their lattice positions, creating defects
- These defects can alter the material's physical and chemical properties
- Over time, accumulated damage may lead to structural failures or changes in conductivity and transparency
- The understanding and mitigation of radiation damage are crucial in designing materials for nuclear reactors and space applications

Practical example: Electronics

- Radiation damage in crystals affects electronics by disrupting the crystal lattice structures of semiconductors, which are crucial for the functioning of devices like smartphones and computers
- Exposure to radiation can create defects in these crystals, leading to degraded performance, reduced efficiency, and shorter lifespans of electronic components
- As electronics become more integrated into critical applications, understanding and mitigating radiation damage is essential for ensuring device reliability and durability



Radiation Damage In Crystals

Herbert Ringel



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Radiation Damage in Crystals Lewis T. Chadderton,1965

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Johnson,A.N. Orlov,2012-12-02 Physics of Radiation Effects in Crystals is presented in two parts The first part covers the general background and theory of radiation effects in crystals including the theory describing the generation of crystal lattice defects by radiation the kinetic approach to the study of the disposition of these defects and the effects of the diffusion of these defects on alloy compositions and phases Specific problems of current interest are treated in the second part and include anisotropic dimensional changes in x uranium zirconium and graphite acceleration of thermal creep in reactor materials and radiation damage of semiconductors and superconductors

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Radiation Damage of Irradiated Organic Single Crystals B. Kalyanaraman,1978

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International Conference Elliot Cheu,John P Rutherford,Teresa Embry,Richard Wigmans,1998-09-22 This volume covers all aspects of particle detection using calorimetric techniques The emphasis is on methods currently employed in existing detectors with some articles devoted to techniques under development

Radiation Damage in Single Metal Crystals D.

L. V. Couchman,King's College London. Department of Physics,1969

Nuclear Science Abstracts ,1975

Supercollider 1 Michael McAshan,2012-12-06 IISSC 89 was a tremendous success A total of 635 people attended this educational forum which was dedicated to further the understanding of the design construction and operation of the Superconducting Supercollider SSC A total of 110 presentations and addresses were given The topics discussed covered all aspects of the SSC including Magnet Technology Cryogenics Conventional Facilities Technical Systems Detectors Related Accelerator Technology Superconducting Wire Cable Approximately 38% of the presentations addressed superconducting magnet technology 16% were devoted to detector technology 10% addressed superconducting wire cable and the balance was equally split between the remaining topics A special award was presented to Professor M Tigner for his meritorious contribution to the Superconducting Supercollider SSC The award was presented on behalf of the IISSC Board of Directors Keynote speakers included Gerald Bachy CERN Joe Barton Representative from Texas 6th District Ed Bingler Exec Director Texas National Research Laboratory Commission James Decker Deputy Director Office of Energy Research DOE Helen Edwards Fermi National Accelerator Laboratory M G D Gilchriese SSC Central Design Group Robert Hunter Director Office of Energy Research DOE Leon Lederman Director Fermi National Accelerator Laboratory Roy Schwitters Director SSC Laboratory Alvin Trivelpiece Director Oak Ridge National Laboratory Gus Voss DESY Highlights of the symposium included two panel sessions The first panel discussed the growing role of industry in accelerator technology The second panel addressed the congressional perspective on SSC Industrial Panel Congressional Panel J R Faulkner Varian Continental Joe

Barton R Texas 6th Dist *Handbook of Particle Detection and Imaging* Claus Grupen, Irène Buvat, 2012-01-08 The handbook centers on detection techniques in the field of particle physics medical imaging and related subjects It is structured into three parts The first one is dealing with basic ideas of particle detectors followed by applications of these devices in high energy physics and other fields In the last part the large field of medical imaging using similar detection techniques is described The different chapters of the book are written by world experts in their field Clear instructions on the detection techniques and principles in terms of relevant operation parameters for scientists and graduate students are given Detailed tables and diagrams will make this a very useful handbook for the application of these techniques in many different fields like physics medicine biology and other areas of natural science Calorimetry In High Energy Physics - Proceedings Of The Third International Conference James L Siegrist, Phyllis Hale, 1993-08-30 International Tables for Crystallography, Volume F Eddy Arnold, Daniel M. Himmel, Michael G. Rossmann, 2012-03-05 International Tables for Crystallography Volume F is an expert guide to macromolecular crystallography for the structural biologist It was commissioned by the International Union of Crystallography in recognition of the extraordinary contributions that knowledge of macromolecular structure has made and will make to the analysis of biological systems from enzyme catalysis to the workings of a whole cell The volume covers all stages of a crystallographic analysis from the preparation of recombinant proteins through crystallization diffraction data collection phase determination structure validation and structure analysis Although the volume is written for experienced scientists it is recognized that the reader is more likely to be a biologist interested in structure than a classical crystallographer interested in biology Thus there are chapters on the fundamentals history and current perspectives of macromolecular crystallography as well as on useful programs and databases such as the Protein Data Bank Each chapter is written by one or more internationally recognized experts This second edition features 19 new articles and many articles from the first edition have been revised The new articles cover topics such as standard definitions for quality indicators expression of membrane proteins protein engineering high throughput crystallography radiation damage merohedral twinning low resolution ab initio phasing robotic crystal loading whole cell X ray diffraction imaging and halogen interactions in biological crystal structures There are also new articles on relevant software including software for electron microscopy These enhancements will ensure that Volume F continues to be a key reference for macromolecular crystallographers and structural biologists More information on the series can be found at <http://it.iucr.org> Radiation Damage in Molecular Crystals Herbert Ringel, 1969 International Tables for Crystallography, Volume C E. Prince, 2004-01-16 International Tables for Crystallography is the definitive resource and reference work for crystallography and structural science Each of the volumes in the series contains articles and tables of data relevant to crystallographic research and to applications of crystallographic methods in all sciences concerned with the structure and properties of materials Emphasis is given to symmetry diffraction methods and techniques of crystal structure determination and the physical and chemical properties of

crystals The data are accompanied by discussions of theory practical explanations and examples all of which are useful for teaching Volume C provides the mathematical physical and chemical information needed for experimental studies in structural crystallography This volume covers all aspects of experimental techniques using all three principal radiation types X ray electron and neutron from the selection and mounting of crystals and production of radiation through data collection and analysis to interpretation of results Each chapter is supported by a substantial collection of references and the volume ends with a section on precautions against radiation injury Eleven chapters have been revised corrected or updated for the third edition of Volume C More information on the series can be found at <http://it.iucr.org>

Detector Research And Development For The Superconducting Super Collider - Proceedings Of The Symposium Valerie Kelly, Tom Dombeck, George P Yost, 1991-05-29 Over the last three years a significant program of detector technology research and development for high luminosity high energy hadron hadron colliders has been underway in the United States Japan and Europe In as much as the first formal steps have been undertaken to initiate the experimental program at the Superconducting Super Collider SSC it is appropriate to assess in detail the status of this R Particle Tracking and Identification Techniques Vertex Detection Magnets Front End Electronics Data Acquisition Electronics Techniques in Triggering Data Transmission Data Analysis and Simulation Software Studies on Radiation Damage to Materials and Electronics

Proton Bombardment of High-purity Single-crystal Silicon J. B. Robertson, 1967

Macromolecular Crystallization and Crystal Perfection Naomi E Chayen, John R Helliwell, Edward H Snell, 2010-03-25 Structural biology is key to our understanding of the mechanisms of biological processes This book describes current methods and future frontiers in crystal growth and use of X ray and Neutron crystallography in the context of the very successful current automation of crystallization and generation of synchrotron X ray and neutron beams

Advances in Industrial Crystallization Heike Lorenz, Erik Temmel, 2021-06-15 This Special Issue is result of a call for papers of the Section Industrial Crystallization of MDPI s scientific journal Crystals It addresses scientists and engineers active in research and process product development in life science industries e g pharmaceuticals fine chemicals and biotechnology products and bulk chemical applications e g desalination as well The contributions comprise several fundamental and application oriented facets of crystallization providing an overview of industrially relevant subjects in the field Main issues cover phase equilibria and solid state behavior of crystalline compounds crystal shape and size and related measurement techniques Melt and solution crystallization are considered specifically addressing contemporary aspects of continuous crystallization and process intensification

Ferroelectrics Literature Index T. F. Connolly, 2012-12-06 Research on ferroelectricity and ferroelectric materials started in 1920 with the discovery by Valasek that the variation of spontaneous polarization in Rochelle salt with sign and magnitude of an applied electric field traced a complete and reproducible hysteresis loop Activity in the field was sporadic until 1935 when Busch and co workers announced the observation of similar behavior in potassium dihydrogen phosphate and related compounds Progress thereafter continued at

a modest level with the undertaking of some theoretical as well as further experimental studies In 1944 von Hippel and co workers discovered ferroelectricity in barium titanate The technological importance of ceramic barium titanate and other perovskites led to an upsurge of interest with many new ferroelectrics being identified in the following decade By 1967 about 2000 papers on various aspects of ferroelectricity had been published The bulk of this widely dispersed literature was concerned with the experimental measurement of dielectric crystallographic thermal electromechanical elastic optical and magnetic properties A critical and excellently organized compilation based on these data appeared in 1969 with the publication of Landolt Bornstein Volume 111 3 This superb tabulation gave instant access to the results in the literature on nearly 450 pure substances and solid solutions of ferroelectric and antiferroelectric materials Continuing interest in ferroelectrics spurred by the growing importance of electrooptic crystals resulted in the publication of almost as many additional papers by the end of 1969 as had been surveyed in Landolt Bornstein

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