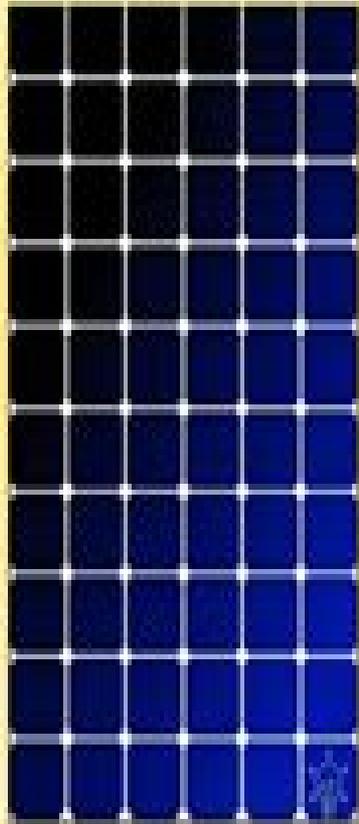


Difference Between Monocrystalline, Polycrystalline, & Thin-Film Solar Panels

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Monocrystalline



Polycrystalline



Thin-Film

Polycrystalline Thin Films Structure

Clemens Wendtner



Polycrystalline Thin Films Structure:

Polycrystalline Thin Films: Structure, Texture, Properties and Applications , Polycrystalline Thin Films ,1996
Polycrystalline Thin Films Katayun Barmak,1994 Polycrystalline Thin Films ,1997 **Polycrystalline Thin Films: Volume 403** Harold J. Frost,Elizabeth A. Holm,Michael A. Parker,Caroline A. Ross,1996-09-20 This interdisciplinary book brings together researchers from a wide range of scientific fields to offer insights into the nature of polycrystalline thin films These films have properties that are different from those of a bulk polycrystal and from those of a single crystal film In particular the volume focuses on film deposition and processing techniques which allow the fabrication of films with innovative microstructures and technologically relevant properties The work presented ranges from theoretical studies to technological applications Topics include microstructural evolution interfaces and mechanical properties characterization of microstructure hard and refractory films polycrystalline silicon electrical properties optical properties gas sensors ferroelectric films metallization and magnetic and MEMS applications Polycrystalline And Amorphous Thin Films And Devices Lawrence Kazmerski,2012-12-02 Polycrystalline and Amorphous Thin Films and Devices is a compilation of papers that discusses the electronic optical and physical properties of thin material layers and films This compilation reviews the different applications of thin films of various materials used as protective and optical coatings thermal transfer layers and selective membranes from submicron area VLSI memory units to large area energy conservation devices Some papers discuss the basic properties such as growth structure electrical and optical mechanisms that are encountered in amorphous and polycrystalline thin semiconductor films For example experiments on electronic structure of dislocations have led to a model for the intrinsic properties of grain boundaries in polycrystalline semiconductor thin films that can have an impact on the designs of high efficiency thin film solar cells Other papers review the problems encountered in these thin layers in active semiconductor devices and passive technologies Techniques in film growth and control variables of source substrate temperature and substrate properties will determine the successful performance of the devices installed with these thin film layers This compilation can prove valuable for chemists materials engineers industrial technologists and researchers in thin film technology Polycrystalline Thin Films - Structure, Texture, Properties III: Volume 472 Brent L. Adams,Fu-Rong Chen,James S. Im,Steven M. Yalisove,Yimei Zhu,1997-11-25 Thin films are used in virtually every manufacturing and technological area A large fraction of these films are polycrystalline Their uses range from critical components in the microelectronics industry to hard coatings for wear resistance corrosion resistance and thermal barriers to magnetic optical and medical applications It is essential to the functional properties of these films that the microstructure composition architecture and stress state be produced with a high level of control which demands a detailed understanding of the mechanisms which are responsible for the formation of structure in polycrystalline thin films This book focuses on thin polycrystalline metallic ceramic and semiconducting films of thicknesses in the range of tens to thousands of nanometers

Topics range from fundamental to technological Topics include evolution of texture and microstructure grain boundaries and interfaces microstructure stress and texture characterization and representation microstructure texture and reliability processing characterization and application and polycrystalline Si and SiGe films Structure and Electrical Properties of Polycrystalline SiGe Thin Films Wei Qin,1999 **Metallic Films for Electronic, Optical and Magnetic Applications** Katayun Barmak, Kevin Coffey, 2014-02-13 Metallic films play an important role in modern technologies such as integrated circuits information storage displays sensors and coatings **Metallic Films for Electronic Optical and Magnetic Applications** reviews the structure processing and properties of metallic films Part one explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy This part also encompasses the processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Chapters in part two focus on the properties of metallic films including mechanical electrical magnetic optical and thermal properties **Metallic Films for Electronic Optical and Magnetic Applications** is a technical resource for electronics components manufacturers scientists and engineers working in the semiconductor industry product developers of sensors displays and other optoelectronic devices and academics working in the field Explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy Discusses processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Focuses on the properties of metallic films including mechanical electrical magnetic optical and thermal properties SERI Photovoltaic Advanced Research and Development Bibliography, 1982-1985 ,1986 Improvements in the Characterization of Polycrystalline Thin Films Derrick Todd Carpenter,1998 Materials properties often depend critically on microstructure especially in polycrystalline thin films Improvements in characterization techniques are necessary to improve our understanding of structure property relationships In this work we develop improvements for the quantitative measurement of grain boundary segregation crystallographic texture and the grain size distribution *Thin-Film Structures for Photovoltaics: Volume 485* Eric D. Jones,1998 Contains 49 papers from the December 1997 symposium The contributions are organized into three sections devoted to silicon II VI and III V based thin films as well as a section on general thin films A number of processes are dealt with including VEST ion beam plasma laser low temperature sputter and metalorganic chemical vapor depositions and various growth techniques In addition analysis and modeling methodologies are discussed Annotation copyrighted by Book News Inc Portland OR **Structure and Magnetic Properties of Polycrystalline FePt and CoPt Thin Films for High Density Recording Media** Sangki Jeong,2002 *Scientific and Technical Aerospace Reports* ,1992 **Solar Energy Update** ,1982-03 Structures and Properties of Interfaces in Materials: Volume 238 William A. T. Clark, Ulrich Dahmen, Clyde L. Briant,1992-04-03 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *European Powder Diffraction, EPDIC IV* R. J. Cernik,R.

Delhez, E. J. Mittemeijer, 1996 This comprehensive publication presents most recent results and covers practically all aspects of powder diffraction Part 1 contains contributions dealing with powder diffraction methods and the larger second part comprises contributions which deal with the application of powder diffraction methods to specific problems in the physics and chemistry of solids 1 Method Development 2 Instrumental Developments and Measurement Techniques 3 Software and Databases 4 Synchrotron Powder Diffraction 5 Neutron Powder Diffraction 6 Characterization of Thin Layers 7 Special Topic In Situ Time Resolved Powder Diffraction 8 Miscellaneous 9 Materials 9 1 Thin Layers 9 2 Amorphous Materials 9 3 Metals and Alloys 9 4 Minerals and Inorganics 9 4 1 Analysis of Structural Changes 9 4 2 Determination of Crystal Structure 9 4 3 Various Analyses 9 5 Organics 9 6 Ceramic Superconductors **Acta Crystallographica**, 1925 **Structure and Effects of Extended Defects in Polycrystalline Si Thin Films**, 2000 The structure and effects of extended defects in rapid deposited polycrystalline Si thin films were studied using a combination of high resolution transmission electron microscopy and first principles total energy calculations Energy Research Abstracts, 1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

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