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J R Leite, A S Chaves, Adalberto Fazzio

Electrochemical Processes for Metallization of Novel Silicon Solar Cells. Mathias Kamp,2016-10-05 Within this work electrochemical processes for manufacturing of novel silicon solar cells are investigated. Direct plating of Ni and Al on n- and p- silicon is demonstrated by making use of solar cell characteristics. Homogenous Ni/Cu stacks are realized for bifacial and back contact solar cells, forming an excellent mechanical and electrical contact to silicon. For metallization of HIT solar cells, the plating behavior on ITO layers is studied. Additionally, plating processes on evaporated Al layers are developed and applied to back contact solar cells. By means of process optimization the plated metal stack on Al features sufficient adhesion and increases the lateral conductivity of the metal grid resulting in increased solar cell efficiency. An advanced metallization route for back contact solar cells which purposefully utilizes the different characteristics of the deposited metals (Al, Ni, Cu) is developed. The resulting metal stacks are characterized in detail using SEM, EDX and AES methods. Besides plating processes, local oxidizing processes for Al are established and combined with printing technologies to realize the metal contact separation for back contact solar cells.

Optical Thin Films and Coatings Angela Piegari, François Flory, 2013-08-31 Optical coatings, including mirrors, anti-reflection coatings, beam splitters, and filters, are an integral part of most modern optical systems. Optical thin films and coatings provides an overview of thin film materials, the properties, design and manufacture of optical coatings and their use across a variety of application areas. Part one explores the design and manufacture of optical coatings. Part two highlights unconventional features of optical thin films including scattering properties of random structures in thin films, optical properties of thin film materials at short wavelengths, thermal

properties and colour effects. Part three focusses on novel materials for optical thin films and coatings and includes chapters on organic optical coatings, surface multiplasmonics and optical thin films containing quantum dots. Finally, applications of optical coatings, including laser components, solar cells, displays and lighting, and architectural and automotive glass, are reviewed in part four. Optical thin films and coatings is a technical resource for researchers and engineers working with optical thin films and coatings, professionals in the security, automotive, space and other industries requiring an understanding of these topics, and academics interested in the field. An overview of the materials, properties, design and manufacture of thin films Special attention is given to the unconventional features and novel materials of optical thin films Reviews applications of optical coatings including laser components, solar cells, glasing, displays and lighting

Direct Methods for Solving Macromolecular Structures S. Fortier, 2013-06-29 This book of the proceedings of the 1997 NATO Advanced Study Institute (ASI) on Direct Methods for Solving Macromolecular Structures was assembled from the lecturers' contributions and represents a comprehensive and in-depth overview of crystallographic structure determination methods for macromolecules. While having a focus based on the direct methods, the Institute adopted an inclusive and broad perspective. Thus, both direct and experimental phasing techniques are presented in this book, highlighting their complementarities and synergies. As weil, methodologies spanning the full crystallographic image reconstruction process - from low resolution envelope definition to high resolution atomic refinement- are discussed. The first part of the book introduces the array of tools currently used in structure determination, whether originating from a mathematical, computational or experimental framework. This section of the book displays the variety and ingenuity of old and new phasing approaches developed to solve increasingly complex

structures. Some of the contributions focus on recent developments and/or implementations that have given older approaches a new life. A case in point is the re-implementation of Buerger's superposition approach, which is now solving protein structures. Another beautiful example is found in the introduction to the traditional multiple isomorphous replacement approach where new techniques, such as site-directed mutagenesis and the use of inert gases in the preparation of heavy atom derivatives, are described. Equally impressive are the presentations of newer approaches, which take advantage of advances on the experimental front (e. g.

Encyclopedia of Geology ,2020-12-16 Encyclopedia of Geology, Second Edition presents in six volumes state-of-the-art reviews on the various aspects of geologic research, all of which have moved on considerably since the writing of the first edition. New areas of discussion include extinctions, origins of life, plate tectonics and its influence on faunal provinces, new types of mineral and hydrocarbon deposits, new methods of dating rocks, and geological processes. Users will find this to be a fundamental resource for teachers and students of geology, as well as researchers and non-geology professionals seeking up-to-date reviews of geologic research. Provides a comprehensive and accessible one-stop shop for information on the subject of geology, explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences, tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

Espectrometría infrarroja de reflexión en mineralogía avanzada, geomología y arqueometría Mikhail Ostrooumov.2007

Advances in Structure Research by Diffraction Methods Rudolf Brill,1975

Surface Infrared and Raman Spectroscopy W. Suëtaka, 2013-06-29 are intended to fill the gap between a manufacturer's handbook, and review articles that highlight the latest scientific developments. A fourth volume will deal with techniques for specimen handling, beam artifacts, and depth profiling. It will provide a compilation of methods that have proven useful for specimen handling and treatment, and it will also address the common artifacts and problems associated with the bombardment of solid sur faces by photons, electrons, and ions. A description will be given of methods for depth profiling. Surface characterization measurements are being used increasingly in di verse areas of science and technology. We hope that this series will be useful in ensuring that these measurements can be made as efficiently and reliably as possible. Comments on the series are welcomed, as are suggestions for volumes on additional topics. C. J. Powell Gaithersburg, Maryland A. W. Czandema Golden, Colorado D. M. Hercules Pittsburgh, Pennsylvania T. E. Madey New Brunswick, New Jersey J. T. Yates, Jr.

Proceedings of the Second Symposium on the Development of Petroleum Resources of Asia and the Far East .1963

Electron-Phonon Interactions and Phase Transitions T. Riste,2013-03-09 This NATO Advanced Study Institute was the fourth in a series devoted to the subject of phase transitions and instabilities with particular attention to structural phase transforma~ions. Beginning with the first Geilo institute in 19'(1 we have seen the emphasis evolve from the simple quasiharmonic soft mode description within the Landau theory, through the unexpected spectral structure re presented by the central peak (1973), to such subjects as melting, turbulence and hydrodynamic instabilities (1975). Sophisticated theoretical techniques such as scaling laws and renormalization group theory developed over the same period have brought to this wide range of subjects a pleasing unity. These

institutes have been instrumental in placing structural transformations clearly in the mainstream of statistical physics and critical phenomena. The present Geilo institute retains some of the counter cul tural flavour of the first one by insisting whenever possible upon peeking under the skirts of even the most successful phenomenology to catch a glimpse of the underlying microscopic processes. Of course the soft mode remains a useful concept, but the major em phasis of this institute is the microscopic cause of the mode softening. The discussions given here illustrate that for certain important classes of solids the cause lies in the electron phonon interaction. Three major types of structural transitions are considered. In the case of metals and semimetals, the electron phonon interaction relie6 heavily on the topology of the Fermi surface.

Inter-noise ,1988

Transactions Faraday Society,1919

Transactions of the Faraday Society ,1919

NASA Technical Report United States. National Aeronautics and Space Administration,1960 Political Reflections upon the Finances and Commerce of France ... Translated from the French, etc RÉFLEXIONS.,1739

<u>Proceedings of the Royal Society. Section A, Mathematical and Physical Science</u> Royal Society (Great Britain),1937

Caminos de reflexión y pensamiento: análisis desde la filosofía hasta los ODS ,2023-07-18 Parliamentary Papers Queensland. Parliament. Legislative Assembly,1982

Semiconductor Physics - Proceedings Of The 5th Brazilian School J R Leite, A S Chaves, Adalberto Fazzio, 1992-11-06

Polymer Science U.S.S.R., 1975

International Catalogue of Scientific Literature [1901-1914] ,1902

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