

## **High Energy Electron Scattering**

United States. Air Force. Office of Scientific Research

### **High Energy Electron Scattering:**

High-energy Electron Scattering Russell A. Bonham, Manfred Fink, 1974 **High-energy Electron Scattering Tables** Robert Herman, Robert Hofstadter, 1960 Part I and part II numerical tables Technique of High-resolution, High-energy Electron Scattering with Application to Elastic Scattering from Li6 and Li7 Larry Russell Suelzle, 1967 High-energy Electron Scattering from Molecules ,1998 **High Energy Electron Diffraction and Microscopy** L.-M. Peng, S. L. Dudarev, M. J. Whelan, 2004 This book is an in depth treatment of the theoretical background relevant to an understanding of materials that can be obtained by using high energy electron diffraction and microscopy Electron-electron Scattering Francis Charles Gilbert,1951 **High Energy Electron Scattering** Edgar William Etherington, King's College London. Department of Physics, 1962 High Energy Electron Scattering from Atomic Nuclei Harry Robert Fechter, 1953 High Energy Electron Scattering from Carbon in the Forward Direction William Lee Faissler, 1967 Reflection High-Energy Electron Diffraction and Reflection Electron Imaging of Surfaces P.K. Larsen, P.J. Dobson, 2012-12-06 This volume contains the papers presented at the NATO Advanced Research Workshop in Reflection High Energy Electron Diffraction and Reflection Electron Imaging of Surfaces held at the Koningshof conference center Veldhoven the Netherlands June 15 19 1987 The main topics of the workshop Reflection High Energy Electron Diffraction RHEED and Reflection Electron Microscopy REM have a common basis in the diffraction processes which high energy electrons undergo when they interact with solid surfaces at grazing angles However while REM is a new technique developed on the basis of recent advances in transmission electron microscopy RHEED is an old method in surface crystallography going back to the discovery of electron diffraction in 1927 by Davisson and Germer Until the development of ultra high vacuum techniques in the 1960 s made instruments using slow electrons more accessable RHEED was the dominating electron diffraction technique Since then and until recently the method of Low Energy Electron Diffraction LEED largely surpassed RHEED in popularity in surface studies The two methods are closely related of course each with its own specific advantages The grazing angle geometry of RHEED has now become a very useful feature because this makes it ideally suited for combination with the thin growth technique of Molecular Beam Epitaxy MBE This combination allows in situ studies of freshly grown and even growing surfaces opening up new areas of research of both fundamental and technological importance The scope and limitations of high energy electron scattering in obtaining relevant structural information about atoms and molecules Suhas Narayan Ketkar, 1984 High-energy electron scattering and nuclear structure F. C. Khanna,1971 Nuclear Form-factors from High Energy Electron Scattering A. Swift, 1967 High-energy Electron Scattering as a Test of the Nuclear Cluster Model T. A. Griffy, R. J. Oakes, H. M. Schwartz, HIGH ENERGY PHYSICS LAB STANFORD UNIV CALIF., 1966 The possibility of using high energy electron scattering to investigate the cluster model of light nuclei is discussed The general formulation of the electron cluster coincidence cross section for processes of the type A e e b B is given Final state

interactions between the ejected cluster and the residual nucleus are taken into account using a square well optical model potential Finally the formalism is applied to the process Li6 e e d He4 as an example Author **Bibliography of Low**Energy Electron and Photon Cross Section Data (January 1975 Through December 1977) J. W. Gallagher, John R. Rumble, Earl Claude Beaty, 1979 Nuclear Science Abstracts, 1976-06 Excitation and Disintegration of Nuclei by Low Energy Electrons and X Rays, 1965 AFOSR. United States. Air Force. Office of Scientific Research, 1950 Energy Research Abstracts, 1982 Scientific and Technical Aerospace Reports, 1980

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