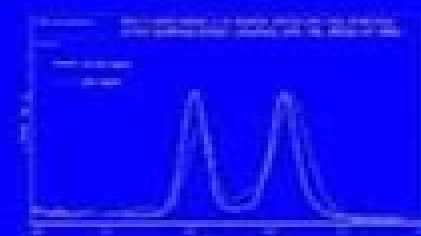
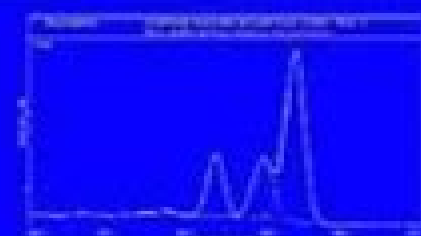
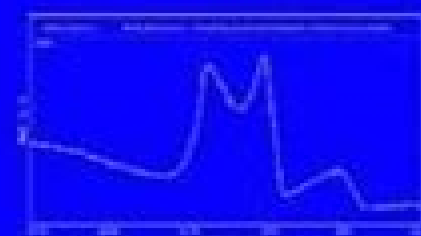


Handbook of **Monochromatic XPS Spectra**

**Polymers and
Polymers Damaged
by X-rays**

B. Vincent Crist



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Handbook Of Monochromatic Xps Spectra Polymers And Polymers Damaged By X Rays

B.Vincent Crist



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The introductory section to each handbook includes comprehensive information about the XPS instrument used the materials and the advanced methods used to collect the spectra Energy resolution settings instrument characteristics energy referencing methods traceability energy scale calibration details and transmission function are all reported Among the many valuable features included in each of these handbooks are All spectra were measured by using AlK monochromatic X rays All spectra were collected in a self consistent manner to maximise data reliability and quality All peaks in the wide spectra are fully annotated and accompanied by detailed atom % tables that report BEs for each of the labelled peaks Each high energy resolution spectrum is peak fitted and accompanied by detailed tables containing binding energies FWHMs and relative percentages In this volume Semiconductors are contained XPS Spectra from a wide range of semiconductive materials and related materials a rare tool for scientists and analysts in this area Exclusive features of this volume include Binding energies are accurate to 0.08 eV Charge compensation was done with a flood gun mesh screen system Valence band spectra document the occupied density of states DOS and the fundamental electronic nature of the semi conductive materials analysed Analyses were done as received freshly fractured in air ion etched and chemically treated Alphabetically organised by chemical abbreviations for ease of locating each material This handbook is an invaluable reference for materials scientists and electrical engineers in industry academia and government laboratories interested in the analysis of semiconductors Also Available Handbook of Monochromatic XPS Spectra The Elements and Their Native Oxides Handbook of Monochromatic XPS Spectra Polymers and Polymer Damage **Surface and Thin Film Analysis** Gernot Friedbacher, Henning Bubert, 2011-03-31 Surveying and comparing all techniques relevant for practical applications in surface and thin film analysis this second edition of a bestseller is a vital guide to this hot topic in nano and surface technology This new book has been revised and updated and is divided into four parts electron ion and photon detection as well as scanning probe microscopy New chapters have been added to cover such techniques as SNOM FIM atom probe AP and sum frequency generation SFG Appendices with a summary and comparison of techniques and a list of equipment suppliers make this book a rapid reference for materials scientists analytical chemists and those working in the biotechnological industry From a Review of the First Edition edited by Bubert and Jenett a useful resource Journal of the American Chemical Society Plastics Additives J.C.J. Bart, 2006-03-15 Contains an outline of the principles and characteristics of relevant instrumental techniques provides an overview of various aspects of direct additive analysis by focusing on an array of applications in R and D production quality control and technical service *The Handbooks of Monochromatic XPS Spectra Series* B. Vincent Crist, 2004 *Handbooks of Monochromatic XPS Spectra* B. Vincent Crist, 2004 Bulletin of the Korean Chemical Society, 2006 Handbook of Monochromatic XPS Spectra B. Vincent Crist, 2000-10-19 This handbook is one of three containing an invaluable collection of research grade XPS Spectra Each handbook concentrates on a specific family of materials the elements and their native oxides semiconductors and polymers and is entirely self contained The introductory section to each

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German books in print, 2000 **High Resolution XPS of Organic Polymers** G. Beamson, D. Briggs, 1992-11-17 Definitive handbook of high resolution xps spectra of over one hundred organic polymers Provides the full spectral information survey and core regions with fitted components shake up spectra valence band and in some cases Auger spectra All the data are parameterized and tabulated Complete details of sample preparation are given Instrument performance and operating conditions are extensively documented Complete with introductory section and comprehensive appendices Easy to use landscape format Surface Analysis of Polymers by XPS and Static SIMS D. Briggs, 1998-04-02 This book provides an in depth treatment of the instrumentation physical bases and applications of X ray photoelectron spectroscopy XPS and static secondary ion mass spectroscopy SSIMS with a specific focus on the subject of polymeric materials XPS and SSIMS are widely accepted as the two most powerful techniques for polymer surface chemical analysis particularly in the context of industrial research and problem solving In this book the techniques of XPS and SSIMS are described and in each case the

author explains what type of information may be obtained The book also includes details of case studies emphasising the complementary and joint application of XPS and SSIMS in the investigation of polymer surface structure and its relationship to the properties of the material This book will be of value to academic and industrial researchers interested in polymer surfaces and surface analysis Characterization of Polymers in the Solid State II H.H. Kausch,H.G. Zachmann,2013-10-03

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