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Autore	Sánchez, Aquilino
Titolo	Español en directo : Nivel 1 B / Aquilino Sanchez, Manuel Rios, Joaquin Dominguez
Pubbl/distr/stampa	Madrid : Sociedad general Española de Libreria, 1978
Edizione	[3. ed.]
Descrizione fisica	165 p. : ill. ; 22 cm
Altri autori (Persone)	Rios, Manuel Dominguez, Joaquin
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Autore	Stöhr Joachim
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Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1992
ISBN	3-662-02853-0
Edizione	[1st ed. 1992.]
Descrizione fisica	1 online resource (XV, 404 p.)
Collana	Springer Series in Surface Sciences, , 2198-4743 ; ; 25
Disciplina	543.65
Soggetti	Mass spectrometry Atoms Molecules Lasers Surfaces (Technology) Thin films Chemistry, Physical and theoretical Mass Spectrometry Atomic, Molecular and Chemical Physics Laser Surfaces, Interfaces and Thin Film Physical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	"With 177 Figures."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction -- 2. Theory of Inner Shell Excitation Spectra -- 3. Symmetry and Molecular Orbitals -- 4. Experimental and Calculated K-Shell Spectra of Simple Free Molecules -- 5. Principles, Techniques, and Instrumentation of NEXAFS -- 6. Spectra of Condensed, Chemisorbed, and Polymeric Molecules: An Overview -- 7. Analysis of K-Shell Excitation Spectra by Curve Fitting -- 8. ?* Resonance Position and Bond Length -- 9. The Angular Dependence of Resonance Intensities -- 10. Selected Applications of NEXAFS -- 11. A Look into the Future -- Appendices -- A. Derivation of the EXAFS Equation -- B. Chemisorbed Molecules Studied by NEXAFS -- References.
Sommario/riassunto	This comprehensive treatment of the fundamental principles and

applications of NEXAFS spectroscopy develops all concepts from an elementary level, presenting a unified picture of the latest theoretical and experimental results. The power of this technique is demonstrated, in particular, in the application to low-Z molecules bonded to surfaces, systems of special interest in surface chemistry, where NEXAFS reveals the electronic and structural properties of the molecules. While researchers and students without extensive prior knowledge of X-ray absorption spectroscopy are catered for by the systematic presentation of the underlying concepts, practicing spectroscopists will find here details of state-of-the-art instrumentation in analysis techniques, and results, along with tabulated information about the various molecular adsorption systems that have already been studied by NEXAFS.
