

1.	Record Nr.	UNISA990002912300203316
	Autore	DINSMOOR, William B. <jr.>
	Titolo	1. : The predecessors / by William B. Dinsmoor Jr.
	Pubbl/distr/stampa	Princeton, : The American School of classical studies at Athens, 1980
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	Descrizione fisica	XVIII, 69 p., 24 p. di tav., [1] carta di tavola ripiegata : ill. ; 34 cm
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	Collocazione	XI.3.B. 365/1
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2.	Record Nr.	UNINA9910956111703321
	Autore	Stöhr Joachim
	Titolo	NEXAFS Spectroscopy / / by Joachim Stöhr
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1992
	ISBN	3-662-02853-0
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	Descrizione fisica	1 online resource (XV, 404 p.)
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	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

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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. π^* 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.