

1. Record Nr.	UNISA996418172703316
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Titolo	Electron and Phonon Spectrometrics [[electronic resource] /] / by Chang Q Sun
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-3176-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXX, 511 p. 197 illus., 133 illus. in color.)
Disciplina	535.84
Soggetti	Atomic structure Molecular structure Spectroscopy Nanotechnology Atomic/Molecular Structure and Spectra Spectroscopy/Spectrometry Nanotechnology and Microengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part I. Electron Emission: Quantum Entrapment and Polarization -- Introduction -- Theory: Bond-Electron-Energy Correlation -- Probing Strategies: STM/S, PES, APECS/XAS, ZPS -- Solid and Liquid Skins: Quantum Entrapment and Polarization -- Adatoms, Defects, and Kink Edges -- Atomic Chain Ends, Clusters, and Nanocrystals -- Carbon Allotropes -- Hetero-Coordinated Interfaces -- Tetrahedrally-Coordinated Bond Formation -- Hetero- and Under-Coordination Coupling -- Liquid Phase -- Concluding Remarks -- Part II. Electron Diffraction: Bond-band-Barrier Forming Dynamics -- Principles: Bond-band-barrier Correlation -- Methodology: Parameterization and Justification -- VLEED Capability and Sensitivity -- Bond Geometry, Valence Band, Potential Barrier and Work Function -- Four-Stage Cu3O2 Bonding Dynamics -- Conclusion -- Part 3. Multifield Phonon Dynamics -- Wonders of Multifield Lattice Oscillation -- Theory: Multifield Oscillation Dynamics -- Phonons of the Layered Structures -- Phonons of the Sized Crystals -- Water and Aqueous Solutions -- Concluding Remarks.

Sommario/riassunto

This book presents the latest advances and future trends in electron and phonon spectrometrics, focusing on combined techniques using electron emissions, electron diffraction, and phonon absorption and reflection spectrometrics from a substance under various perturbations to obtain new information on bond-electron-phonon dynamics. Discussing the principles of the bond order-length-strength (BOLS) correlation, nonbonding electron polarization (NEP), local bond average (LBA), and multi-field lattice oscillation dynamics for systems under perturbation, the book covers topics like differential photoelectron/phonon spectrometrics (DPS), which distils transition of the length, energy, stiffness and the fraction of bonds upon chemical or physical conditioning; and the derived performance of electrons in various bands in terms of quantum entrapment and polarization. This book appeals to researchers, scientists and engineers in the fields of chemistry, physics, surface and interface science, and materials science and engineering who are interested in electron and phonon spectrometrics. .

2. Record Nr.	UNINA9910794131903321
Titolo	Paradigmatic relations in word formation // edited by Jesus Fernandez-Dominguez, Alexandra Bagasheva, Cristina Lara Clares
Pubbl/distr/stampa	Leiden ; ; Boston : , : BRILL, , [2020] ©2020
ISBN	90-04-43341-4
Descrizione fisica	1 recurso online
Collana	Empirical approaches to linguistic theory ; ; Volume 16
Disciplina	415
Soggetti	Grammar, Comparative and general - Word formation Paradigm (Linguistics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	List of Tables and Figures -- Notes on Contributors -- 1 What Paradigms and What For? -- Jesus Fernandez-Dominguez, Alexandra Bagasheva, and Cristina Lara-Clares -- 2 Paradigmaticity in

Compounding -- Alexandra Bagasheva -- 3 Characterizing Derivational Paradigms -- Bernard Fradin -- 4 The Level of Paradigmaticity within Derivational Networks -- Petr Kos -- 5 Doublet Formation in Palestinian Arabic—Where Do Paradigms Interfere? -- Lior Laks and Faten Yousef -- 6 What We Talk about When We Talk about Paradigms: Representing Latin Word Formation -- Eleonora Litta and Marco Budassi -- 7 A Paradigmatic Approach to Compounding -- Jan Radimsky -- 8 Of Brownie Girls and Aussie Families : A New Look at Morphosemantic Paradigmaticity in Adj+ ie / y Nominalisations -- Jose A. Sanchez Fajardo and Elizaveta Tarasova -- 9 Neoclassical Word Formation in English: A Paradigm-Based Account of -scope Formations -- Ana Diaz-Negrillo -- Index.

Sommario/riassunto

Paradigmatic Relations in Word Formation brings together contributions that aim to discuss the nature of paradigms in derivational morphology and compounding in the light of evidence from various languages. Among others, the topics considered in the volume include the interconnectedness between derivational families and paradigms, the constitutive characteristics of a word-formation paradigm, the degree of predictability of word-formation paradigms, and the specificity of paradigms depending on the variety of recognised word-formation processes and patterns.
