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Titolo	Alkali-doped fullerides [[electronic resource]] : narrow-band solids with unusual properties / / Olle Gunnarsson
Pubbl/distr/stampa	River Edge, N.J., : World Scientific, c2004
ISBN	1-281-93543-3 9786611935436 981-279-495-6
Descrizione fisica	1 online resource (xvii, 282 p.) : ill
Disciplina	537.623
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references (p. 261-277) and index.
Nota di contenuto	ch. 1. Structural properties. 1.1. Structure of the C[symbol] molecule. 1.2. Structures of some solids -- ch. 2. Models and parameters. 2.1. Models of hopping. 2.2. Coulomb interaction. 2.3. Electron-phonon interaction. 2.4. Electron-plasmon coupling. 2.5. Current operator -- ch. 3. Phonons and electron-phonon coupling strength. 3.1. Intramolecular modes. 3.2. Alkali phonons. 3.3. Librations. 3.4. Intermolecular modes -- ch. 4. Interacting electron-phonon system. 4.1. Free molecules. 4.2. Spectral functions in metallic fullerenes. 4.3. Model calculation -- ch. 5. Electronic structure. 5.1. Band structure calculations. 5.2. Tight-binding calculations. 5.3. GW calculations. 5.4. Susceptibility. 5.5. Specific heat. 5.6. Density of states. 5.7. Hall effect. 5.8. Photoemission -- ch. 6. Plasmons. 6.1. Experimental results. 6.2. Plasmon dispersion. 6.3. Plasmon broadening -- ch. 7. Metal-insulator transition. 7.1. Experimental results and U/W ratio. 7.2. Computational approach: Projection Quantum Monte Carlo method. 7.3. Degeneracy

dependence. 7.4. Filling dependence. 7.5. Lattice structure dependence. 7.6. Effects of electron-phonon and Hund's rule coupling. 7.7. Effects of noncubic lattice structure -- ch. 8. Electrical resistivity. 8.1. Mean free path. 8.2. Resistivity saturation. 8.3. Experimental results. 8.4. Boltzmann theory of resistivity. 8.5. Beyond the Boltzmann equation. 8.6. Different classes of saturation behavior -- ch. 9. Superconductivity. 9.1. Experimental results. 9.2. Retardation effects and Coulomb pseudopotential. 9.3. Local pairing. 9.4. Electronic mechanism. 9.5. Isotope effect. 9.6. Comparison with experiments -- ch. 10. Discussion.

Sommario/riassunto

Alkali-doped fullerenes have attracted strong interest since their production became possible about fifteen years ago. This book presents recent work which may solve intriguing problems arising from a variety of remarkable properties. For example, these solids are superconductors with high transition temperatures, although the similarity between the electronic and phonon energy scales should suppress superconductivity. Moreover, the Ioffe-Regel condition for electrical conductivity is strongly violated. The book shows why superconductivity is nevertheless possible, owing to a local pairing mechanism. The Ioffe-Regel condition is derived quantum-mechanically, and it is explained why the underlying assumptions are violated for fullerenes and high- T_c cuprates, for example. The book treats electronic and transport properties, reviewing theoretical and experimental results. It focuses on superconductivity, electrical conductivity and metal-insulator transitions, emphasizing the electron-electron and electron-phonon interactions as well as the Jahn-Teller effect.

2. Record Nr.	UNINA9910812803203321
Titolo	Antisemitism and the constitution of sociology // edited and with an introduction by Marcel Stoetzler
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ISBN	0-8032-6671-5 0-8032-6670-7
Descrizione fisica	1 online resource (773 p.)
Classificazione	SOC049000SOC026000
Disciplina	305.892/4
Soggetti	Antisemitism - History Sociology - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Acknowledgments; Introduction; Part 1. The Antisemitic Contexts of Sociology's Emergence; 1. Durkheim's Sociology and French Antisemitism; 2. Sociology's Case for a Well-Tempered Modernity; 3. Fairness as an Impetus for Objective, Scientific Social Research Methods; 4. Coldly Admiring the Jews; Part 2. Sociology's Reaction to Antisemitism; 5. Rereading Marx on the "Jewish Question"; 6. From Assimilationist Antiracism to Zionist Anti-antisemitism; 7. The Rise of Sociology, Antisemitism, and the Jewish Question 8. Civilization(s), Ethnoracism, Antisemitism, SociologyPart 3. The Reformulation of Sociology in the Face of Fascist Antisemitism; 9. Talcott Parsons's "The Sociology of Modern Anti-Semitism"; 10. The Irrationality of the Rational; 11. Gino Germani, Argentine Sociology, and the Study of Antisemitism; 12. Antisemitism and the Power of Abstraction; Conclusion; Contributors; Index; About the Editor
Sommario/riassunto	"Modern antisemitism and the modern discipline of sociology not only emerged in the same period, but--antagonism and hostility between the two discourses notwithstanding--also overlapped and complemented each other. Sociology emerged in a society where modernization was often perceived as destroying unity and "social

cohesion." Antisemitism was likewise a response to the modern age, offering in its vilifications of "the Jew" an explanation of society's deficiencies and crises. *Antisemitism and the Constitution of Sociology* is a collection of twelve essays providing a comparative analysis of modern antisemitism and the rise of sociology. This volume addresses three key areas: the strong influence of writers of Jewish background and the rising tide of antisemitism on the formation of sociology; the role of antisemitism in the historical development of sociology through its treatment by leading figures in the field, such as Emile Durkheim, Talcott Parsons, and Theodor W. Adorno; and the discipline's development in the aftermath of the Nazi Holocaust. Together the essays provide a fresh perspective on the history of sociology and the role that antisemitism, Jews, fascism, and the Holocaust played in shaping modern social theory. "--
