

# INDICE DELLE TEMATICHE

A1 HANDBOOKS

A2 TABELLE

A3 MATEMATICA E PROGRAMMAZIONE

E1 LASERS e fasci di elettroni

G Superfluidi, superconduttività

J1 Fisica generale, meccanica quantistica, elettricità, magnetismo, plasma, e altri argomenti di Fisica non classificati altrimenti (Esclusi: stato solido, semiconduttori, chimica fisica, elettronica, impiantazione, raggi X, film sottili, termodinamica, difetti, ottica)

J2 Fisica dello stato solido esclusi i difetti

J4-5 Semiconduttori in generale: teoria, fisica, e tecnologia

J5 Semiconduttori amorfi idrogenati

K2 Chimica-fisica generale: metalli, vetri, cristalli liquidi

K4-5 Elettronica: teoria e applicazioni (Componenti, circuiti, Elettronica generale, conferenze)

L2 Chimica generale, teoria, analitica, elettronica.

L3-4 Impiantazione ionica, channeling, Back Scattering

L5 Raggi X, diffrazione, cristallografia, microanalisi

L6 Film sottili

L7 Termodinamica, diffusione, nucleazione, accrescimento di cristalli, equilibrio chimico

LL Landau and Lifshitz (serie di volumi)

M1 Energia: sfruttamento energia solare; celle solari

M2 Dislocazioni, difetti reticolari, difetti di punto, bordi di grano

M5 Ottica classica ed elettronica

M6 Microscopia ottica ed elettronica

MM Methuen's monographs (serie di volumi)

N1, N2 Nuovi arrivi

V Varie: storia della scienza; scienze; fisica

## A1 HANDBOOKS

## A2 TABELLE

## A3 MATEMATICA E PROGRAMMAZIONE

| Colonna1 | Autori   | Titolo   |
|----------|--|--|
| A1-D-1   | Hodgman Charles D., Weast Robert C., Shankland Robert S. e Selby Samuel M. | Handbook of Chemistry and Physics (44th edition 1963)        |
| A2-D-1   | Abramowitz Milton e Stegun Irene Ann                                       | Handbook of Mathematical Functions                           |
| A2-D-2   | Carmichael Robert D. e Smith Edwin R.                                      | Mathematical Tables and Formulas                             |
| A2-D-3   | Gradshteyn I. S. e Ryzhik I. M.  | Tables of Integrals Series and Products                      |
| A2-D-4   | Jahnke Eugen e Emde Fritz  | Tables of Functions  |
| A2-D-5   | Menzel Donald H.   | Fundamental Formulas of Physics                              |
| A2-D-6   | Petit Bois G.  | Tables of Indefinite Integrals                               |
| A3-D-1   | Brillouin Léon   | Science and Information Theory                               |
| A3-D-2   | Démidovitch B. e Maron I.  | Elements de calcul numérique                                 |
| A3-D-3   | Doretti R. e Farabone R.   | Dal Fortran IV al Fortran 77                                 |
| A3-D-4   | Hairer H. e Wanner G.  | Analysis by Its History                                      |
| A3-D-5   | Hodges Joseph L. jr. e Lehmann Eric L.                                     | I concetti fondamentali della probabilità e della statistica |
| A3-D-6   | Impedovo M.  | Matematica generale con il calcolatore                       |
| A3-D-7   | Khinchin Aleksandr Yakovlevich   | Mathematical Foundations of Information Theory               |
| A3-D-8   | Margenau H. e Murphy G. M.   | The Mathematics of Physics and Chemistry                     |
| A3-D-9   | Mathsoft   | Mathcad 13 user's guide                                      |
| A3-D-10  | McCracken Daniel D.  | A Guide to FORTRAN IV Programming                            |
| A3-D-11  | Postnikov Mikhail  | Leçons de Géométrie, premier semestre: Géométrie analytique  |
| A3-D-12  | Smirnov Vladimir Ivanovič  | Cours de mathématiques supérieures                           |
| A3-D-13  | Webster Arthur Gordon  | Partial Differential Equations of Mathematical Physics       |
| A3-D-14  | Whittaker Edmund T. e Watson George N.                                     | A Course of Modern Analysis                                  |

# E1 LASERS e fasci di elettroni

## G Superfluidi, supercondutività

| Autori | Titolo  |
|--------|---|
| E1-D-1 | Hecht J. e Teresi D.  |
| E1-D-2 | Kock Winston E.   |
| G-D-1  | London Fritz  |
| G-D-2  | London Fritz  |
|        | Laser: Light of a Million Uses                                |
|        | Laser and Holography: An Introduction to Coherent Optics      |
|        | Superfluids (vol. 1): Macroscopic Theory of Superconductivity |
|        | Superfluids (vol. 2): Macroscopic Theory of Superfluid Helium |

# J1 Fisica generale, meccanica quantistica, elettricità, magnetismo, plasma, e altri argomenti di Fisica non classificati altrimenti

| Colonna1 | Autori   | Titolo  |
|----------|--|---|
| J1-D-1   | Allen Leslie e Eberly Joseph H.  | Optical Resonance and Two-Level Atoms                                     |
| J1-D-2   | Amaldi Edoardo   | Fisica Sperimentale (vol. 2)  |
| J1-D-3   | Ballentine Leslie E.   | Quantum Mechanics: A Modern Development                                   |
| J1-D-4   | Becker Richard   | Electromagnetic Fields and Interactions                                   |
| J1-D-5   | Becker Riccardo  | Teoria dell'elettricità   |
| J1-D-6   | Bernardini Gilberto  | Fisica Sperimentale (vol. 1)  |
| J1-D-7   | Bethe Hans Albrecht e Salpeter Edwin E.  | Quantum Mechanics of One- and Two-Electron Atoms                          |
| J1-D-8   | Boffi Sigfrido   | Onde di materia e onde di probabilità                                     |
| J1-D-9   | Bohm Arno  | Quantum Mechanics: Foundations and Applications                           |
| J1-D-10  | Bohm David   | Quantum Theory  |
| J1-D-11  | Born Max   | Atomic Physics  |
| J1-D-12  | Brillouin Léon   | Les tenseurs en mécanique et en élasticité                                |
| J1-D-13  | Calzetta E. e Hu Bei-Lok B.  | Nonequilibrium Quantum Field Theory                                       |
| J1-D-14  | Cohen-Tannoudji Claude, Diu Bernard e Laloë Frank                              | Mécanique Quantique   |
| J1-D-15  | Crawford Frank S. Jr.  | Onde e oscillazioni, Fisica di Berkeley, vol. 3                           |
| J1-D-16  | d'Espagnat Bernard   | I fondamenti concettuali della meccanica quantistica                      |
| J1-D-17  | Ferretti Bruno   | Le radici classiche della meccanica quantica                              |
| J1-D-18  | Feynman Richard P. e Hibbs Albert R.   | Quantum Mechanics and Path Integrals                                      |
| J1-D-19  | Gasiorowicz Stephen  | Quantum Physics   |
| J1-D-20  | Ghose Partha   | Testing Quantum Mechanics on New Ground                                   |
| J1-D-21  | Haken Hermann e Wolf Hans Christoph  | Fisica atomica e quantistica  |
| J1-D-22  | Harrison Walter Ashley   | Applied Quantum Mechanics   |
| J1-D-23  | Heine Volker   | Group Theory in Quantum Mechanics   |
| J1-D-24  | Heitler Walter   | The Quantum Theory of Radiation   |
| J1-D-25  | Joos E., Zeh H. D., Kiefer C., Giulini D. J. W., Kupsch J. e Stamatescu I. -O. | Decoherence and the Appearance of a Classical World in the Quantum Theory |
| J1-D-26  | Kramers Hendrik Anthony  | Quantum Mechanics   |
| J1-D-27  | Lévy-Leblond Jean-Marc e Balibar Françoise                                     | Quantique: Rudiments  |
| J1-D-28  | March Norman H., Young W. H. e Sampanthar S.                                   | The Many-Body Problem in Quantum Mechanics                                |
| J1-D-29  | Mattuck Richard D.   | A Guide to Feynman Diagrams in the Many-Body Problem                      |

# J1 Fisica generale, meccanica quantistica, elettricità, magnetismo, plasma, e altri argomenti di Fisica non classificati altrimenti

| Colonna1 | Autori   | Titolo  |
|----------|--|---|
| J1-D-30  | Merzbacher Eugen   | Quantum Mechanics   |
| J1-D-31  | Messiah Albert   | Mécanique Quantique   |
| J1-D-32  | Michelin R.A. Munari A.  | Fondamenti di Chimica   |
| J1-D-33  | Michelin R.A. Mozzon Munari A.                                 | Test ed esercizi di chimica   |
| J1-D-34  | Møller Christian   | The Theory of Relativity  |
| J1-D-35  | Morse Philip McCord e Feschbach Herman                         | Methods of Theoretical Physics                                      |
| J1-D-36  | Mott Nevill F. e Massey Harrie S. W.                           | The Theory of Atomic Collisions                                     |
| J1-D-37  | Mott Nevill F. e Sneddon Ian N.                                | Wave Mechanics and Its Applications                                 |
| J1-D-38  | Park David   | Introduction to the Quantum Theory                                  |
| J1-D-39  | Pauli Wolfgang   | Electrodynamics   |
| J1-D-40  | Pauli Wolfgang   | General Principles of Quantum Mechanics                             |
| J1-D-41  | Pauli Wolfgang   | Optics and the Theory of Electrons                                  |
| J1-D-42  | Pauli Wolfgang   | Selected Topics in Field Quantization                               |
| J1-D-43  | Pauli Wolfgang   | Statistical Mechanics   |
| J1-D-44  | Pauli Wolfgang   | Thermodynamics and the Kinetic Theory of Gases                      |
| J1-D-45  | Pauli Wolfgang   | Wave Mechanics  |
| J1-D-46  | Peierls Rudolf Ernst   | More Surprises in Theoretical Physics                               |
| J1-D-47  | Peierls Rudolf Ernst   | Surprises in Theoretical Physics                                    |
| J1-D-48  | Persico Enrico   | Fundamentals of Quantum Mechanics                                   |
| J1-D-49  | Purcell Edward Mills   | Electricity and Magnetism, Berkeley Physics Course vol. 2 (2nd ed.) |
| J1-D-50  | Purcell Edward Mills   | Elettricità e Magnetismo, Fisica di Berkeley, vol. 2 (1a ed.)       |
| J1-D-51  | Sakurai Jun John   | Meccanica quantistica moderna                                       |
| J1-D-52  | Schiff Leonard Isaac   | Meccanica quantistica (1a ed.)                                      |
| J1-D-53  | Schiff Leonard Isaac   | Quantum mechanics (3rd ed.)   |
| J1-D-54  | Serra Roberto, Zanarini Gianni, Andretta Massimo e Compiani M. | Introduzione alla fisica dei sistemi complessi                      |
| J1-D-55  | Tinkham Michael  | Group Theory and Quantum Mechanics                                  |
| J1-D-56  | Ziman John M.  | Elements of Advanced Quantum Theory                                 |

## J2 Fisica dello stato solido (esclusi i difetti)

## J4-5 Semiconduttori in generale: teoria, fisica, e tecnologia

## J5 Semiconduttori amorfi idrogenati

| Colonna1 | Autori  | Titolo  |
|----------|---|---|
| J2-D-1   | Altmann Simon L.  | Band Theory of Solids: An Introduction from the Point of View of Symmetry   |
| J2-D-2   | Anderson Philip W.  | Basic Notions in Condensed Matter Physics   |
| J2-D-3   | Anderson Philip W.  | Concepts in Solids  |
| J2-D-4   | Ashcroft Neil W., Mermin N. David                                       | Solid State Physics   |
| J2-D-5   | Ashcroft Neil W. (?), Mermin N. David (?) e Wei Dan                     | Solid State Physics (revised edition)   |
| J2-D-6   | Bohm A., Mostafazadeh A., Koizumi H., Niu Q. e Zwanziger J. (a cura di) | The Geometric Phase in Quantum Systems: Foundations, Mathematical Concepts and Applications in Molecular and Condensed Matter Physics |
| J2-D-7   | Born Max and Huang Kun  | Dynamical Theory of Crystal Lattices  |
| J2-D-8   | Brillouin Léon  | Wave Propagation in Periodic Structures   |
| J2-D-9   | Brown P. J. e Forsyth J. B.   | Struttura cristallina dei solidi  |
| J2-D-10  | Burdett Jeremy K.   | Chemical Bonding in Solids  |
| J2-D-11  | Chaikin Paul M. e Lubensky Tom C.                                       | Principles of Condensed Matter Physics  |
| J2-D-12  | Chen Chih-Wen   | Magnetism and Metallurgy of Soft Magnetic Materials   |
| J2-D-13  | Cochran William   | The Dynamics of Atoms in Crystals   |
| J2-D-14  | Cohen Marvin L. e Louie Steven G.                                       | Fundamentals of Condensed Matter Physics  |
| J2-D-15  | Coles B. R. e Caplin A. D.  | Strutture elettroniche dei solidi   |
| J2-D-16  | Cox P. A.   | The Electronic Structure and Chemistry of Solids  |
| J2-D-17  | Cusack N. E.  | The Physics of Structurally Disordered Matter   |
| J2-D-18  | Dugdale J. S.   | The Electrical Properties of Metals and Alloys  |
| J2-D-19  | Elliott Stephen R.  | The Physics and Chemistry of Solids   |
| J2-D-20  | Feng Duan e Jin Guojun  | Introduction to Condensed Matter Physics (vol. 1)   |
| J2-D-21  | Harrison Walter Ashley  | Electronic Structure and the Properties of Solids: The Physics of the Chemical  |
| J2-D-22  | Harrison Walter Ashley  | Elementary Electronic Structure   |
| J2-D-23  | Harrison Walter Ashley  | Solid State Theory  |
| J2-D-24  | Hummel Rolf E.  | Electronic Properties of Materials  |
| J2-D-25  | Ibach Harald e Lüth Hans  | Solid-State Physics: An Introduction to Principles of Materials Science   |

## J2 Fisica dello stato solido (esclusi i difetti)

## J4-5 Semiconduttori in generale: teoria, fisica, e tecnologia

## J5 Semiconduttori amorfi idrogenati

| Colonna1 | Autori                            | Titolo  |
|----------|-----------------------------------|---|
| J2-D-26  | Imry Yoseph                       | Introduction to Mesoscopic Physics  |
| J2-D-27  | Jones William e March Norman H.   | Theoretical Solid State Physics   |
| J2-D-28  | Kittel Charles                    | Introduction to Solid State Physics   |
| J2-D-29  | Kittel Charles                    | Quantum Theory of Solids  |
| J2-D-30  | Lax Melvin                        | Symmetry Principles In Solid State and Molecular Physics                              |
| J2-D-31  | Marder Michael P.                 | Condensed Matter Physics  |
| J2-D-32  | Mott Nevill F. e Davis Edward A.  | Electronic Processes in Non-crystalline Materials                                     |
| J2-D-33  | Mott Nevill F. e Gurney Ronald W. | Electronic Processes in Ionic Crystals  |
| J2-D-34  | Mott Nevill F. e Jones Harry      | The Theory of the Properties of Metals and Alloys                                     |
| J2-D-35  | Nye John Frederick                | Physical Properties of Crystals: Their Representation by Tensors and Matrices         |
| J2-D-36  | Peierls Rudolf Ernst              | Quantum Theory of Solids  |
| J2-D-37  | Pettifor David G.                 | Bonding and Structure of Molecules and Solids   |
| J2-D-38  | Pines David                       | Elementary Excitations in Solids  |
| J2-D-39  | Pines David                       | The Many-Body Problem   |
| J2-D-40  | Pines David e Nozières Philippe   | The Theory of Quantum Liquids. Volume 1: Normal Fermi Liquids                         |
| J2-D-41  | Raines Stanley                    | The Wave Mechanics of Electrons in Metals   |
| J2-D-42  | Rickayzen Gerald                  | Green's Functions and Condensed Matter  |
| J2-D-43  | Seitz Frederick                   | Modern Theory of Solids   |
| J2-D-44  | Slater John Clarke                | Quantum Theory of Matter  |
| J2-D-45  | Slater John Clarke                | Quantum Theory of Molecules and Solids, vol. 2: Symmetry and Energy Bands in Crystals |
| J2-D-46  | Slater John Clarke                | Quantum Theory of Molecules and Solids, vol. 3: Insulators, Semiconductors and Metals |
| J2-D-47  | Smith Robert Allan                | Wave Mechanics of Crystalline Solids  |
| J2-D-48  | Sutton Adrian P.                  | Electronic Structure of Materials   |
| J2-D-49  | van Vleck John Hasbrouck          | The Theory of Electric and Magnetic Susceptibilities                                  |
| J2-D-50  | Wilson Alan Herries               | The Theory of Metals  |
| J2-D-51  | Ziman John M.                     | Electrons and Phonons   |

## J2 Fisica dello stato solido (esclusi i difetti)

## J4-5 Semiconduttori in generale: teoria, fisica, e tecnologia

## J5 Semiconduttori amorfi idrogenati

| Colonna1 | Autori                       | Titolo  |
|----------|------------------------------|---|
| J2-D-52  | Ziman John M.                | Models of Disorder: The Theoretical Physics of Homogeneously Disordered Systems |
| J2-D-53  | Ziman John M.                | Principles of the Theory of Solids  |
| J4-5-D-1 | Blakemore John Sydney        | Semiconductor Statistics  |
| J4-5-D-2 | Pankove Jacques I.           | Optical Processes in Semiconductors   |
| J4-5-D-3 | Phillips James Charles       | Bonds and Bands in Semiconductors   |
| J4-5-D-4 | Ridley Brian K.              | Quantum Processes in Semiconductors   |
| J4-5-D-5 | Seeger Karlheinz             | Semiconductor Physics: An Introduction  |
| J4-5-D-6 | Smith Robert Allan           | Semiconductors  |
| J4-5-D-7 | Yu Peter Y. e Cardona Manuel | Fundamentals of Semiconductors: Physics and Materials Properties                |
| J5-D-1   | Street Robert A.             | Hydrogenated Amorphous Silicon  |

K2 Chimica-fisica generale: metalli, vetri, cristalli liquidi

K4-5 Elettronica: teoria e applicazioni (Componenti, circuiti, Elettronica generale, conferenze)

| Colonna1 | Autori   | Titolo  |
|----------|--|---|
| K2-D-1   | Cahn Robert Wolfgang (a cura di)                     | Physical Metallurgy   |
| K2-D-2   | Condon Edward Uhler e Shortley George H.             | The Theory of Atomic Spectra  |
| K2-D-3   | Craig D. P. e Thirunamachandran T.                   | Molecular Quantum Electrodynamics: An Introduction to Radiation Molecule Interactions |
| K2-D-4   | Debye Peter  | Polar Molecules   |
| K2-D-5   | Eyring Henry, Walter John e Kimball George Edward    | Chimica quantistica   |
| K2-D-6   | Glasstone Samuel                                     | Textbook of Physical Chemistry  |
| K2-D-7   | Glasstone Samuel, Laidler Keith James e Eyring Henry | The Theory of Rate Processes  |
| K2-D-8   | Gurney Ronald Wilfred                                | Ionic Processes in Solution   |
| K2-D-9   | Harrison Walter Ashley                               | Theoretical Alchemy: Modeling Matter  |
| K2-D-10  | Herzberg Gerhard                                     | Atomic Spectra and Atomic Structure   |
| K2-D-11  | Hume-Rothery William                                 | Electrons, Atoms, Metals and Alloys   |
| K2-D-12  | Hume-Rothery William e Raynor Geoffrey V.            | The Structure of Metals and Alloys  |
| K2-D-13  | McWeeny Roy  | Coulson's Valence   |
| K2-D-14  | Moore Walter J.                                      | Physical Chemistry  |
| K2-D-15  | Phillips James Charles                               | Covalent Bonding in Crystals, Molecules and Polymers                                  |
| K2-D-16  | Slater John Clarke                                   | Introduction to Chemical Physics  |
| K2-D-17  | Slater John Clarke                                   | Quantum Theory of Molecules and Solids, vol. 1: Electronic Structure of Molecules     |
| K2-D-18  | Syrkin Y. K. e Dyatkina M. E.                        | Structure of Molecules and the Chemical Bond  |
| K2-D-19  | White Harvey Elliott                                 | Introduction to Atomic Spectra  |
| K4-5-D-1 | De Castro Ercole                                     | Scritti scelti  |
| K4-5-D-2 | Sze Simon M. e Ng Kwok K.                            | Physics of Semiconductor Devices  |

L2 Chimica generale, teoria, analitica, elettronica.

L3-4 Impiantazione ionica, channeling, Back Scattering

L5 Raggi X, diffrazione, cristallografia, microanalisi

L6 Film sottili

| Colonna1 | Autori  | Titolo  |
|----------|---|---|
| L2-D-1   | Brescia F., Arents J., Meislich H. e Turk A.      | Fundamentals of Chemistry: A Modern Introduction  |
| L2-D-2   | Bruni Giuseppe                                    | Chimica generale e inorganica   |
| L2-D-3   | Chiorboli Paolo                                   | Fondamenti di Chimica   |
| L2-D-4   | Gray Harry B. and Haight Gilbert P., Jr.          | Basic Principles of Chemistry   |
| L2-D-5   | Mahan Bruce H.                                    | University Chemistry  |
| L2-D-6   | Michelin R.A. Munari A.                           | Fondamenti di Chimica   |
| L2-D-7   | Michelin R.A. Mozzon Munari A.                    | Test ed esercizi di chimica   |
| L2-D-8   | Quagliano James Vincent e Vallarino L. M.         | Chemistry   |
|          |   |   |
| L3-4-D-1 | Chadderton Lewis T.                               | Radiation Damage in Crystals  |
| L3-4-D-2 | Goland Allen N. (a cura di)                       | Proceedings of the International Conference on Solid State Physics Research with Accelerators (Brookhaven, September 25-28, 1967) |
| L3-4-D-3 | Mayer James W., Lennart Eriksson e John A. Davies | Ion Implantation In Semiconductors, Silicon and Germanium   |
| L3-4-D-4 | Morgan David Vernon (a cura di)                   | Channeling: Theory, Observation and Applications  |
| L3-4-D-5 | Nelson R. Stuart                                  | The Observation of Atomic Collisions in Crystalline Solids  |
|          |   |   |
| L5-D-1   | Guinier André                                     | X-ray Diffraction in Crystals, Imperfect crystals and Amorphous Bodies  |
| L5-D-2   | Taylor Abraham e Kagle B. J.                      | Crystallographic Data on Metal and Alloy Structures   |
| L5-D-3   | Thompson Mike W.                                  | Defect and Radiation Damage in Metals   |
| L5-D-4   | Warren Bertram Eugene                             | X-ray Diffraction   |
| L5-D-5   | Zachariasen William Houlder                       | Theory of X-ray Diffraction in Crystals   |
|          |   |   |
| L6-D-1   | Heavens O. S.                                     | Optical Properties of Thin Solid Films  |

# L7 Termodinamica, diffusione, nucleazione, accrescimento di cristalli, equilibrio chimico

## LL Landau and Lifshitz (serie di volumi)

|         |  |   |
|---------|--|---|
| L7-D-1  | Brenig Wilhelm                                 | Statistical Theory of Heat: Nonequilibrium Phenomena  |
| L7-D-2  | Bridgman Percy Williams                        | The Thermodynamics of Electrical Phenomena in Metals (and a Condensed Collection of Thermodynamic Formulas) |
| L7-D-3  | Carrà Sergio                                   | Struttura e stabilità: Introduzione alla termodinamica dei materiali  |
| L7-D-4  | Chandler David                                 | Introduction to Modern Statistical Mechanics  |
| L7-D-5  | de Groot Sybren Ruurds                         | Thermodynamics of Irreversible Processes  |
| L7-D-6  | de Groot Sybren Ruurds e Mazur Peter           | Non-Equilibrium Thermodynamics  |
| L7-D-7  | Denbigh Kenneth George                         | The Principles of Chemical Equilibrium  |
| L7-D-8  | Fermi Enrico                                   | Thermodynamics  |
| L7-D-9  | Fowler Ralph Howard                            | Statistical Mechanics   |
| L7-D-10 | Fowler Ralph H. e Guggenheim Edward A.         | Statistical Thermodynamics  |
| L7-D-11 | Frenkel Yakov Ilich                            | Kinetic Theory of Liquids   |
| L7-D-12 | Girifalco Louis A.                             | Statistical Mechanics of Solids   |
| L7-D-13 | Goodstein David L.                             | States of Matter  |
| L7-D-14 | Guggenheim Edward Armand                       | Thermodynamics  |
| L7-D-15 | Hildebrand Joel Henry e Scott R. L.            | The Solubility of Non-Electrolytes  |
| L7-D-16 | Hill Terrell Leslie                            | An Introduction to Statistical Thermodynamics   |
| L7-D-17 | Hill Terrell Leslie                            | Statistical Mechanics   |
| L7-D-18 | Hill Terrell Leslie                            | Thermodynamics of Small Systems (Part I and II)   |
| L7-D-19 | Huang Kerson                                   | Introduction to Statistical Physics   |
| L7-D-20 | Huang Kerson                                   | Statistical Mechanics   |
| L7-D-21 | Khinchin Aleksandr Yakovlevich                 | Mathematical Foundations of Quantum Statistics  |
| L7-D-22 | Khinchin Aleksandr Yakovlevich                 | Mathematical Foundations of Statistical Mechanics   |
| L7-D-23 | Kittel Charles                                 | Elementary Statistical Physics  |
| L7-D-24 | Kittel Charles                                 | Thermal Physics   |
| L7-D-25 | Kittel Charles e Kroemer Herbert               | Termodinamica statistica  |
| L7-D-26 | Kubo Ryogo                                     | Statistical Mechanics   |
| L7-D-27 | Kubo Ryogo, Toda Morikazu e Hashitsume Natsuki | Statistical Physics II: Nonequilibrium Statistical Mechanics  |
| L7-D-28 | Landsberg Peter Theodore                       | Thermodynamics and Statistical Mechanics  |
| L7-D-29 | Lavenda Bernard Howard                         | Thermodynamics of Irreversible Processes  |
| L7-D-30 | Prigogine Ilya                                 | Introduzione alla termodinamica dei processi irreversibili  |
| L7-D-31 | Rice Oscar K.                                  | Statistical Mechanics, Thermodynamics and Kinetics  |

# L7 Termodinamica, diffusione, nucleazione, accrescimento di cristalli, equilibrio chimico

## LL Landau and Lifshitz (serie di volumi)

|         |  |  |
|---------|--|--|
| L7-D-32 | Schieve William C. e Horwitz Lawrence P. | Quantum Statistical Physics                              |
| L7-D-33 | Shewmon Paul G.                          | Diffusion in Solids                                      |
| L7-D-34 | Swalin Richard A.                        | Thermodynamics of Solids                                 |
| L7-D-35 | Sycev Vjaceslav V.                       | Sistemi termodinamici complessi                          |
| L7-D-36 | Toda M., Kubo R. e Saitô Nobuhiko        | Statistical Physics I: Equilibrium Statistical Mechanics |
| L7-D-37 | Tolman Richard Chace                     | The Principles of Statistical Mechanics                  |
| L7-D-38 | van Kampen Nicolaas Godfried             | Stochastic Processes in Physics and Chemistry            |
| L7-D-39 | Wallace Duane C.                         | Thermodynamics of Crystals                               |
| L7-D-40 | Wannier Gregory Hugh                     | Statistical Physics                                      |
| L7-D-41 | Wax Nelson (a cura di)                   | Selected Papers on Noise and Stochastic Processes        |
| L7-D-42 | Zemansky Mark Waldo                      | Heat and Thermodynamics                                  |

|         |  |   |
|---------|--|---|
| LL-D-1  | Berestetskii Vladimir B., Lifshitz Evgeny M. e Pitaevskii Lev P. | Relativistic Quantum Theory (vol 2° solo degli ultimi due autori) |
| LL-D-2  | Landau Lev D. e Lifshitz Evgeny M.                               | The Classical Theory of Fields                                    |
| LL-D-3  | Landau Lev D., Lifshitz Evgeny M. e Pitaevskii Lev P.            | Electrodynamics of Continuous Media                               |
| LL-D-4  | Landau Lev D. e Lifshitz Evgeny M.                               | Fluid Mechanics   |
| LL-D-5  | Landau Lev D. e Lifshitz Evgeny M.                               | Mechanics   |
| LL-D-6  | Landau Lev D. e Lifshitz Evgeny M.                               | Quantum Mechanics   |
| LL-D-7  | Landau Lev D. e Lifshitz Evgeny M.                               | Statistical Physics   |
| LL-D-8  | Landau Lev D. e Lifshitz Evgeny M.                               | Theory of Elasticity  |
| LL-D-9  | Lifshitz Evgeny M. e Pitaevskii Lev P.                           | Physical Kinetics   |
| LL-D-10 | Lifshitz Evgeny M. e Pitaevskii Lev P.                           | Statistical Physics (Part 2)                                      |

M1 Energia: sfruttamento energia solare; celle solari

M2 Dislocazioni, difetti reticolari, difetti di punto, bordi di grano

M5 Ottica classica ed elettronica

M6 Microscopia ottica ed elettronica

| Colonna1 | Autori                                 | Titolo  |
|----------|--|---|
| M1-D-1   | Bethe Hans Albrecht e Morrison Philip  | Teoria elementare del nucleo  |
| M1-D-2   | Blatt John M. e Weisskopf Victor F.    | Theoretical Nuclear Physics   |
| M1-D-3   | Byrne James                            | Neutrons, Nuclei & Matter: An Exploration of the Physics of Slow Neutrons |
| M1-D-4   | Eisenbud L. e Wigner E. P.             | La struttura del nucleo   |
|          |  |   |
| M2-D-1   | Cottrell Alan Howard                   | Dislocations and Plastic Flow in Crystals                                 |
| M2-D-2   | Friedel Jacques                        | Dislocations  |
| M2-D-3   | Hayes W. e Stoneham Arthur Marshall    | Defects and Defect Processes in Nonmetallic Solids                        |
| M2-D-4   | Henderson B.                           | Difetti nei solidi cristallini  |
| M2-D-5   | Love Augustus Edward Hough             | A Treatise on the Mathematical Theory of Elasticity                       |
| M2-D-6   | Nabarro Frank Reginald Nunes           | The Theory of Crystal Dislocations  |
| M2-D-7   | Read W. Thornton, Jr.                  | Dislocations in Crystals  |
| M2-D-8   | van Bueren Hendrik Gerard              | Imperfections in Crystals   |
|          |  |   |
| M5-D-1   | Agarwal Girish Saran                   | Quantum Optics  |
| M5-D-2   | Hayes William e Loudon Rodney          | Scattering of Light by Crystals   |
| M5-D-3   | Loudon Rodney                          | The Quantum Theory of Light   |
| M5-D-4   | van de Hulst Hendrik C.                | Light Scattering by Small Particles                                       |
| M5-D-5   | Vedral Vlatko                          | Modern Foundations of Quantum Optics                                      |
| M5-D-6   | Walls Daniel Frank e Milburn Gerald J. | Quantum Optics  |
|          |  |   |
| M6-D-1   | Fujikawa Kazuo e Ono Yoshimasa A.      | In Memory of Akira Tonomura, Physicist and Electron Microscopist          |
| M6-D-2   | Pozzi Giulio                           | Microscopia e olografia con elettroni                                     |

## MM Methuen's monographs (serie di volumi)

### V Varie: storia della scienza; scienze; fisica

| Colonna1 | Autori  | Titolo  |
|----------|---|---|
| MM-D-1   | Aigrain Pierre e Englert François                             | Les semiconducteurs   |
| MM-D-2   | Boulesteix Claude e Bruneaux Michel                           | Electrons de conduction et surface de Fermi des métaux  |
| MM-D-3   | Denbigh Kenneth George  | The Thermodynamics of the Steady State  |
| MM-D-4   | Dingle Herbert  | The Special Theory of Relativity  |
| MM-D-5   | Elcock E. W.  | Order-Disorder Phenomena  |
| MM-D-6   | Heavens O. S.   | Optical Masers  |
| MM-D-7   | Jackson Leonard Cecil   | Low Temperature Physics   |
| MM-D-8   | Lynton Ernest A.  | Superconductivity   |
| MM-D-9   | Smith K. F.   | Molecular Beams   |
| MM-D-10  | Troup Gordon  | Masers and Lasers   |
| MM-D-11  | Troup Gordon  | Optical Coherence Theory: Recent Developments   |
|          |   |   |
|          |   |   |
| V-D-1    | Belardinelli Enzo (a cura di)                                 | Imola Conference on University and Research (September 1988)  |
| V-D-2    | Bertin Antonio, Verondini Ettore e Vitale Antonio (a cura di) | L'itinerario scientifico e l'insegnamento di Pietro Bassi, fisico   |
| V-D-3    | Giuliani Giuseppe (a cura di)                                 | Per una storia della fisica italiana 1945-1965: Vol. 1: Fisica della Materia, Fisica Teorica, Insegnamento della Fisica |
| V-D-4    | Marazzini Paolantonio   | Nuove radiazioni, quanti e relatività in Italia (1896-1925)   |
| V-D-5    | Marazzini Paolantonio e Rossi Marco                           | Per una storia della fisica Italiana 1945-1965: Vol. 2: La fisica dei semiconduttori                                    |

## MM Methuen's monographs (serie di volumi)

### V Varie: storia della scienza; scienze; fisica

| Colonna1 | Autori  | Titolo  |
|----------|---|---|
| MM-D-1   | Aigrain Pierre e Englert François                             | Les semiconducteurs   |
| MM-D-2   | Boulesteix Claude e Bruneaux Michel                           | Electrons de conduction et surface de Fermi des métaux  |
| MM-D-3   | Denbigh Kenneth George  | The Thermodynamics of the Steady State  |
| MM-D-4   | Dingle Herbert  | The Special Theory of Relativity  |
| MM-D-5   | Elcock E. W.  | Order-Disorder Phenomena  |
| MM-D-6   | Heavens O. S.   | Optical Masers  |
| MM-D-7   | Jackson Leonard Cecil   | Low Temperature Physics   |
| MM-D-8   | Lynton Ernest A.  | Superconductivity   |
| MM-D-9   | Smith K. F.   | Molecular Beams   |
| MM-D-10  | Troup Gordon  | Masers and Lasers   |
| MM-D-11  | Troup Gordon  | Optical Coherence Theory: Recent Developments   |
|          |   |   |
|          |   |   |
| V-D-1    | Belardinelli Enzo (a cura di)                                 | Imola Conference on University and Research (September 1988)  |
| V-D-2    | Bertin Antonio, Verondini Ettore e Vitale Antonio (a cura di) | L'itinerario scientifico e l'insegnamento di Pietro Bassi, fisico   |
| V-D-3    | Giuliani Giuseppe (a cura di)                                 | Per una storia della fisica italiana 1945-1965: Vol. 1: Fisica della Materia, Fisica Teorica, Insegnamento della Fisica |
| V-D-4    | Marazzini Paolantonio   | Nuove radiazioni, quanti e relatività in Italia (1896-1925)   |
| V-D-5    | Marazzini Paolantonio e Rossi Marco                           | Per una storia della fisica Italiana 1945-1965: Vol. 2: La fisica dei semiconduttori                                    |

# N1, N2 Nuovi arrivi

| Collocazione | Autori  | Titolo   |
|--------------|---|--|
| N1-D-1       | Brillouin Léon  | Wave Propagation and Group Velocity  |
| N1-D-2       | Dirac Paul Adrien Maurice                               | The Principles of Quantum Mechanics  |
| N1-D-3       | Gerry Christopher C. e Knight Peter L.                  | Introductory Quantum Optics  |
| N1-D-4       | Ghersi Italo  | 700 giochi ed esperienze dilettatevoli e facili di fisica, chimica, storia naturale e matematica |
| N1-D-5       | Girvin Steven M. e Yang Kun                             | Modern Condensed Matter Physics  |
| N1-D-6       | Goldstein Herbert, Poole Charles P. Jr. e Safko John L. | Classical Mechanics  |
| N1-D-7       | Gottfried Kurt e Yan Tung-Mow                           | Quantum Mechanics: Fundamentals  |
| N1-D-8       | Himmel L. (a cura di)                                   | Recovery and Recrystallization of Metals   |
| N1-D-9       | Jackson John David                                      | Classical Electrodynamics  |
| N1-D-10      | Landsberg Peter Theodore                                | Thermodynamics with Quantum Statistical Illustrations  |
| N1-D-11      | Leggett Anthony James                                   | Quantum Liquids: Bose Condensation and Cooper Pairing in Condensed-Matter Systems                |
| N1-D-12      | Lieb Elliott H. e Seiringer Robert                      | The Stability of Matter in Quantum Mechanics   |
| N1-D-13      | Lipson Ariel, Lipson Stephen G. e Lipson Henry          | Optical Physics  |
| N1-D-14      | Milonni Peter W.  | Fast Light, Slow Light and Left-Handed Light   |
| N1-D-15      | Møller Christian  | Relativistic Thermodynamics: A Strange Incident in the History of Physics                        |
| N1-D-16      | Pauling Linus   | La natura del legame chimico   |
| N1-D-17      | Sethna James P.   | Statistical Mechanics: Entropy, Order Parameters, and Complexity                                 |
| N1-D-18      | Tolman Richard Chace                                    | Relativity, Thermodynamics and Cosmology   |
| N1-D-19      | Weyl Hermann  | The Theory of Groups and Quantum Mechanics   |
|              |   |  |
| N2-D-1       | Cheng Ta-Pei  | Relativity, Gravitation and Cosmology: A Basic Introduction                                      |
| N2-D-2       | Davies Paul Charles William (a cura di)                 | The New Physics  |
| N2-D-3       | Fraser Gordon   | The New Physics for the Twenty-First Century   |
| N2-D-4       | Lancaster Tom e Blundell Stephen J.                     | Quantum Field Theory for the Gifted Amateur  |