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Titolo	A Course in Theoretical Physics [[electronic resource]]
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	A Course in Theoretical Physics; Contents; Notation; Preface; I NONRELATIVISTIC QUANTUM MECHANICS; 1 Basic Concepts of Quantum Mechanics; 1.1 Probability interpretation of the wave function; 1.2 States of definite energy and states of definite momentum; 1.3 Observables and operators; 1.4 Examples of operators; 1.5 The time-dependent Schrodinger equation; 1.6 Stationary states and the time-independent Schrodinger equation; 1.7 Eigenvalue spectra and the results of measurements; 1.8 Hermitian operators; 1.9 Expectation values of observables 1.10 Commuting observables and simultaneous observability 1.11 Noncommuting observables and the uncertainty principle; 1.12 Time dependence of expectation values; 1.13 The probability-current

density; 1.14 The general form of wave functions; 1.15 Angular momentum; 1.16 Particle in a three-dimensional spherically symmetric potential; 1.17 The hydrogen-like atom; 2 Representation Theory; 2.1 Dirac representation of quantum mechanical states; 2.2 Completeness and closure; 2.3 Changes of representation; 2.4 Representation of operators; 2.5 Hermitian operators; 2.6 Products of operators 2.7 Formal theory of angular momentum 3 Approximation Methods; 3.1 Time-independent perturbation theory for nondegenerate states; 3.2 Time-independent perturbation theory for degenerate states; 3.3 The variational method; 3.4 Time-dependent perturbation theory; 4 Scattering Theory; 4.1 Evolution operators and Møller operators; 4.2 The scattering operator and scattering matrix; 4.3 The Green operator and T operator; 4.4 The stationary scattering states; 4.5 The optical theorem; 4.6 The Born series and Born approximation; 4.7 Spherically symmetric potentials and the method of partial waves 4.8 The partial-wave scattering states II THERMAL AND STATISTICAL PHYSICS; 5 Fundamentals of Thermodynamics; 5.1 The nature of thermodynamics; 5.2 Walls and constraints; 5.3 Energy; 5.4 Microstates; 5.5 Thermodynamic observables and thermal fluctuations; 5.6 Thermodynamic degrees of freedom; 5.7 Thermal contact and thermal equilibrium; 5.8 The zeroth law of thermodynamics; 5.9 Temperature; 5.10 The International Practical Temperature Scale; 5.11 Equations of state; 5.12 Isotherms; 5.13 Processes; 5.13.1 Nondissipative work; 5.13.2 Dissipative work; 5.13.3 Heat flow 5.14 Internal energy and heat 5.14.1 Joule's experiments and internal energy; 5.14.2 Heat; 5.15 Partial derivatives; 5.16 Heat capacity and specific heat; 5.16.1 Constant-volume heat capacity; 5.16.2 Constant-pressure heat capacity; 5.17 Applications of the first law to ideal gases; 5.18 Difference of constant-pressure and constant-volume heat capacities; 5.19 Nondissipative-compression/expansion adiabat of an ideal gas; 6 Quantum States and Temperature; 6.1 Quantum states; 6.2 Effects of interactions; 6.3 Statistical meaning of temperature; 6.4 The Boltzmann distribution 7 Microstate Probabilities and Entropy

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## Sommario/riassunto

This book is a comprehensive account of five extended modules covering the key branches of twentieth-century theoretical physics, taught by the author over a period of three decades to students on bachelor and master university degree courses in both physics and theoretical physics. The modules cover nonrelativistic quantum mechanics, thermal and statistical physics, many-body theory, classical field theory (including special relativity and electromagnetism), and, finally, relativistic quantum mechanics and gauge theories of quark and lepton interactions, all presented in a single, se

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2. Record Nr.	UNINA9910783707203321
Titolo	Greek and Roman slavery // Thomas Wiedemann
Pubbl/distr/stampa	Baltimore : , : Johns Hopkins University Press, , 1981
ISBN	1-85955-141-6 1-134-97086-2 1-134-97087-0 1-280-05765-3 0-203-35899-6
Descrizione fisica	1 online resource (302 p.)
Collana	Routledge Sourcebooks for the Ancient World
Altri autori (Persone)	WiedemannThomas E. J
Disciplina	306.3620938 306/.362/0938
Soggetti	Slavery - Greece - History Slavery - Rome - History
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Livello bibliografico	Monografia
Note generali	Reprint. Originally published: London : Croom Helm, 1981.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	CONTENTS; 1 'ALL HUMAN BEINGS ARE EITHER FREE OR SLAVE'; 2 DEBT-BONDAGE AND SERFDOM; 3 MANUMISSION; 4 MORAL INFERIORS; 5 STATUS SYMBOL OR ECONOMIC INVESTMENT?; 6 SOURCES OF SLAVES; 7 DOMESTIC SLAVES AND RURAL SLAVES; 8 SLAVES OWNED BY THE STATE; 9 THE TREATMENT OF SLAVES; 10 RESISTANCE; 11 REBELLION; 12 THE TRUE FREEDOM OF THE SPIRIT; Index
Sommario/riassunto	Greek and Roman Slavery brings together fresh English translations of 243 texts and inscriptions on slavery from fifth and fourth century Greece and Rome. The material is arranged thematically, offering the reader a comprehensive review of the idea and practice of slavery in ancient civilization. In addition, a thorough bibliography for each chapter, as well as an extensive index, make this a valuable source for scholars and students.