

1. Record Nr.	UNINA9910463146603321
Autore	Samaj Ladislav <1959->
Titolo	Introduction to the statistical physics of integrable many-body systems // Ladislav Samaj, Zoltan Bajnok [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2013
ISBN	1-139-88961-3 1-107-05694-2 1-107-05479-6 1-107-05809-0 1-139-34348-3 1-107-05940-2 1-107-05587-3
Descrizione fisica	1 online resource (xix, 504 pages) : digital, PDF file(s)
Disciplina	530.12015195
Soggetti	Quantum theory - Statistical methods Many-body problem
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I. Spinless Bose and Fermi Gases. 1. Particles with nearest-neighbour interactions: Bethe ansatz and the ground state; 2. Bethe ansatz: zero-temperature thermodynamics and excitations; 3. Bethe ansatz: finite-temperature thermodynamics; 4. Particles with inverse-square interactions; Part II. Quantum Inverse Scattering Method. 5. QISM: Yang-Baxter equation; 6. QISM: transfer matrix and its diagonalization; 7. QISM: treatment of boundary conditions; 8. Nested Bethe ansatz for spin-1/2 fermions with delta interactions; 9. Thermodynamics of spin-1/2 fermions with delta interactions; Part III. Quantum Spin Chains. 10. Quantum Ising chain in a transverse field; 11. XXZ Heisenberg chain: Bethe ansatz and the ground state; 12. XXZ Heisenberg chain: ground state in the presence of magnetic field; 13. XXZ Heisenberg chain: excited states; 14. XXX Heisenberg chain: thermodynamics with strings; 15. XXZ Heisenberg chain: thermodynamics without strings; 16. XYZ Heisenberg chain; 17. Integrable isotropic chains with arbitrary spin; Part IV. Strongly

Correlated Electrons. 18. Hubbard model; 19. Kondo effect; 20. Luttinger many-fermion model; 21. Integrable BCS superconductors; Part V. Sine-Gordon Model. 22. Classical sine-Gordon theory; 23. Conformal quantization; 24. Lagrangian quantization; 25. Bootstrap quantization; 26. UV-IR relation; 27. Exact finite volume description from XXZ; 28. Two-dimensional Coulomb gas.

Sommario/riassunto

Including topics not traditionally covered in literature, such as (1+1)-dimensional QFT and classical 2D Coulomb gases, this book considers a wide range of models and demonstrates a number of situations to which they can be applied. Beginning with a treatise of nonrelativistic 1D continuum Fermi and Bose quantum gases of identical spinless particles, the book describes the quantum inverse scattering method and the analysis of the related Yang-Baxter equation and integrable quantum Heisenberg models. It also discusses systems within condensed matter physics, the complete solution of the sine-Gordon model and modern trends in the thermodynamic Bethe ansatz. Each chapter concludes with problems and solutions to help consolidate the reader's understanding of the theory and its applications. Basic knowledge of quantum mechanics and equilibrium statistical physics is assumed, making this book suitable for graduate students and researchers in statistical physics, quantum mechanics and mathematical and theoretical physics.

2. Record Nr.	UNINA9910418017103321
Autore	T. Wolfe Charles
Titolo	Lire le matérialisme // Charles T. Wolfe
Pubbl/distr/stampa	Lyon, : ENS Éditions, 2020
ISBN	979-1-03-620239-1
Descrizione fisica	1 online resource (292 p.)
Altri autori (Persone)	MoreauPierre-François
Soggetti	Philosophy matérialisme athéisme cerveau embodiment mécanisme materialism atheism brain mechanism
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Ce livre étudie, à travers une série d'épisodes allant de la philosophie des Lumières à notre époque, le problème du matérialisme dans l'histoire de la philosophie et l'histoire des sciences. Comment comprendre les spécificités de l'histoire du matérialisme, des Lumières à nos jours, au sein de la grande histoire de la philosophie et de l'histoire des sciences ? Quelle est l'actualité de l'opposition classique entre le corps et l'esprit ? Qu'est-ce que le rire ou le rêve peuvent nous apprendre du matérialisme ? En traversant l'histoire du matérialisme jusqu'à l'émergence d'un « nouveau matérialisme » contemporain, l'ouvrage vise à revitaliser le matérialisme et sa lecture. This book examines, through a series of essays moving from the philosophy of the Enlightenment to the contemporary period, the problem of materialism in the history of philosophy and history of science. The</p>

themes range from classic subjects such as mind-body relationships, the status of the brain, the question of atheism, to the less traditional such as dreams, laughter, embodiment and emergence of a 'New Materialism'. It is intended for historians of philosophy, literature and science as well as contemporary philosophers (of the mind, biology, science).
