

1. Record Nr.	UNINA9910450992403321
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Titolo	Fundamentals of equations of state [[electronic resource] /] / Shalom Eliezer, Ajoy Ghatak, Heinrich Hora
Pubbl/distr/stampa	River Edge, N.J., : World Scientific, c2002
ISBN	981-277-813-6
Descrizione fisica	1 online resource (xviii, 366 p.) : ill
Altri autori (Persone)	GhatakA. K <1939-> (Ajoy K.) HoraHeinrich <1931->
Disciplina	530.4
Soggetti	Equations of state Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Originally published: An introduction to equations of state. Cambridge ; New York : Cambridge University Press, c1986.
Nota di bibliografia	Includes bibliographical references (p. [355]-361) and index.
Nota di contenuto	A summary of thermodynamics; equation of state for an ideal gas; law of equipartition of energy and effects of vibrational and rotational motions; Bose-Einstein equation of state; Fermi-Dirac equation of state; ionization equilibrium and the Saha equation; Debye-Hnckel equation of state; the Thomas-Fermi and related models; Grnneisen equation of state; an introduction to fluid mechanics in relation to shock waves; derivation of hydrodynamics from kinetic theory; studies of the equations of state from high-pressure shock waves in solids; equation of state and inertial confinement fusion; applications of equations of state in astrophysics; equations of state in elementary particle physics.
Sommario/riassunto	The equation of state was developed for ideal gases & proved central to the development of early molecular & atomic physics. This book is an account of the equation of state & its applications in theoretical physics, chemistry & engineering.