1.	Record Nr.	UNINA9910785089603321
	Autore	Eliezer Shalom
	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
	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.