1. Record Nr. UNINA9910457420503321

Autore	Ortiz de Zarate Jose M
Titolo	Hydrodynamic fluctuations in fluids and fluid mixtures [[electronic resource] /] / by Jose M. Ortiz de Zarate, Jan V. Sengers
Pubbl/distr/stampa	Amsterdam, : Elsevier, 2006
ISBN	1-280-64157-6 9786610641574 0-08-045943-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (320 p.)
Altri autori (Persone)	SengersJ. V
Disciplina	532.05
Soggetti	Hydrodynamics Nonequilibrium thermodynamics Thermodynamics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; Introduction; Nonequilibrium thermodynamics; Local thermodynamic properties; Equilibrium thermodynamics; Continuum hypothesis and the assumption of local equilibrium; Balance laws; Mass balance; Pressure tensor; Momentum balance; Energy balance; Additional remarks; Entropy balance, dissipative Fluxes and thermodynamic forces; Phenomenological relations; Onsager's reciprocal relations; Hydrodynamic equations; Hydrodynamic equations for a one-component Fluid; Hydrodynamic equations for a binary mixture; Boundary conditions Conditions at the interface between two continuous mediaA flat horizontal fluid boundary; Fluctuations in fluids in thermodynamic equilibrium; Fluctuating hydrodynamics; Fluctuation-dissipation theorem for Fluids and Fluid mixtures; Fluctuation-dissipation theorem for a one-component Fluid; Fluctuation-dissipation theorem for a binary mixture; Hydrodynamic fluctuations in a one-component Fluid; Structure factor; Equal-time correlations; Equilibrium correlation functions and entropy probability functional; Extension of fluctuating hydrodynamics to nonequilibrium steady states

Thermal nonequilibrium fluctuations in one-component fluidsBoussinesq approximation; Bulk structure factor in the presence of a stationary temperature gradient; Nonequilibrium e.ects on the Brillouin doublet; Nonequilibrium fluctuations in heat conduction; Thermal nonequilibrium fluctuations in fluid mixtures; Linearized fluctuating Boussinesq equations for a binary liquid; The linear stability problem; Structure factor in a large-Lewis-number approximation; Comprehensive structure factor of a nonequilibrium binary mixture; Nonequilibrium .uctuations in isothermal free-di.usion processes
Finite-size effects in hydrodynamic fluctuationsThe hydrodynamic operator; Structure factors; Hydrodynamic modes and decay rates for two free boundaries; Hydrodynamic modes and decay rates for two rigid boundaries; Decay rates for rigid boundaries in the limit of small q; Decay rates for rigid boundaries in the limit of large q; The slowest decay rate; Thermal nonequilibrium fluctuations in one-component-fluid layers; A fluid confined between two free boundaries; A fluid confined between two rigid boundaries
Limiting behavior of the structure factor for rigid boundaries at small and large wave numbersA Galerkin approximation for two rigid boundaries; Correlations in real space; Contribution of nonequilibrium fluctuations to heat transfer; Thermal fluctuations close to the Rayleigh-Benard instability; Critical slowing down of nonequilibrium fluctuations; The most-unstable-mode approximation; The Swift-Hohenberg approximation; Power of thermal fluctuations; Wave number of maximum enhancement of .uctuations; Wave number fluctuations with maximum growth rate
Thermal nonequilibrium fluctuations in binary-fluid layers

Sommario/riassunto

This book deals with density, temperature, velocity and concentration fluctuations in fluids and fluid mixtures. The book first reviews thermal fluctuations in equilibrium fluids on the basis of fluctuating hydrodynamics. It then shows how the method of fluctuating hydrodynamics can be extended to deal with hydrodynamic fluctuations when the system is in a stationary nonequilibrium state. In contrast to equilibrium fluids where the fluctuations are generally short ranged unless the system is close to a critical point, fluctuations in nonequilibrium fluids are always long-ranged encompassing th

2. Record Nr. UNISA996396889003316

Autore	Walton Brian <1600-1661.>
Titolo	An abstract of a treatise concerning the payment of tythes and oblations in London [[electronic resource]] : shewing the antiquitie of those payments according to the rents of houses : that they were payed by positive constitutions, according to the true value of the houses, ever since the yeare 1230 and by antient costome long before : till the quantitie, not the name or nature was altred in time of Henry 8 from 3. s. 6.d. in the pound, to 2. s. 9. d. in the pound as it is now : the liberall maintenance of the clergie of London in former times : the award and Proclamation 25. Henry 8 confirmed by Act of Parliament 27, Hen. 8 : the matters now controverted about double leases, annuall fines, &c. and concerning the jurisdiction ecclesiasticall for tythes of London : a generall survey of the value of the London benefices both as they are now, and also what they might arise unto if tythes were truly payed according to the value of houses : the moderate demands of the clergie, with other matters pertinent to this subject
Pubbl/distr/stampa	[London?, : s.n.], 1641
Descrizione fisica	[2], 74 p
Soggetti	Tithes - England - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	The treatise is attributed to Brian Walton by Halkett and Laing. Reproduction of original in Thomason Collection, British Library.
Sommario/riassunto	eebo-0158