

1.	Record Nr.	UNICAMPANIAVAN0036694
	Titolo	Disegni del manierismo e barocco nell'Italia settentrionale / catalogo della mostra a cura di Giorgio Neerman
	Pubbl/distr/stampa	Milano, : Artelevi, 1971
	Descrizione fisica	163 p. : ill. ; 21 x 21 cm.
	Disciplina	741.945
	Soggetti	Esposizioni - Milano - 1971 Disegni italiani - Sec. 16.-18. - Esposizioni - 1971
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910816386203321
	Autore	Hansen Jean-Pierre <1942->
	Titolo	Theory of simple liquids : with applications to soft matter / / Jean-Pierre Hansen, Universite Pierre et Marie Curie, Paris, France & University of Cambridge, UK, Ian R. McDonald, University of Cambridge, UK
	Pubbl/distr/stampa	Oxford, England, : Academic Press, c2013 Oxford : , : Academic Press, , 2013
	ISBN	0-12-387033-X
	Edizione	[4th ed.]
	Descrizione fisica	1 online resource (xv, 619 pages) : illustrations
	Collana	Gale eBooks
	Disciplina	530.42
	Soggetti	Liquids
	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 at the end of each chapters and index.
	Nota di contenuto	Half Title; Title Page; Copyright; Contents; Preface to the Fourth Edition; Preface to the Third Edition; Preface to the Second Edition; Preface to

the First Edition; 1 Introduction; 1.1 The Liquid State; 1.2 Intermolecular Forces and Model Potentials; 1.3 Experimental Methods; References; 2 Statistical Mechanics; 2.1 Time Evolution and Kinetic Equations; 2.2 Time Averages and Ensemble Averages; 2.3 Canonical and Isothermal-Isobaric Ensembles; 2.4 The Grand Canonical Ensemble and Chemical Potential; 2.5 Particle Densities and Distribution Functions

2.6 Particle Densities in the Grand Canonical Ensemble 2.7 Molecular Dynamics Simulation; 2.8 Monte Carlo Methods; References; 3 Static Properties of Liquids: Thermodynamics and Structure; 3.1 A Fluid in an External Field; 3.2 Functionals and Functional Differentiation; 3.3 Functional Derivatives of the Grand Potential; 3.4 Density Functional Theory; 3.5 Direct Correlation Functions; 3.6 The Density Response Function; 3.7 Diagrammatic Methods; 3.8 Diagrammatic Expansions of the Direct Correlation Functions; 3.9 Virial Expansion of the Equation of State; 3.10 Binary Systems; References

4 Distribution Function Theories 4.1 The Static Structure Factor; 4.2 The YBG Hierarchy and the Born-Green Equation; 4.3 Functional Expansions and Integral Equations; 4.4 The Percus-Yevick Equation; 4.5 The Mean Spherical Approximation; 4.6 Diagrammatic Expansions of the Pair Functions; 4.7 Extensions of Integral Equations; 4.8 Asymptotic Decay of the Pair Correlation Function; References; 5 Perturbation Theory; 5.1 Introduction: The van der Waals Model; 5.2 The ϵ -Expansion; 5.3 Singular Perturbations: The f -Expansion; 5.4 Soft-Core Reference Systems; 5.5 An Example: The Lennard-Jones Fluid

5.6 Treatment of Attractive Forces 5.7 Mean Field Theory of Liquid-Vapour Coexistence; 5.8 Scaling Concepts and Hierarchical Reference Theory; References; 6 Inhomogeneous Fluids; 6.1 Liquids at Interfaces; 6.2 Approximate Free Energy Functionals; 6.3 The Liquid-Vapour Interface; 6.4 A Microscopic Expression for the Surface Tension; 6.5 Fundamental Measure Theory; 6.6 Confined Fluids; 6.7 Density Functional Theory of Wetting; 6.8 Density Functional Theory of Freezing; 6.9 Fluids Adsorbed in Porous Media; 6.10 Thermodynamics of Glasses; References

7 Time-dependent Correlation and Response Functions 7.1 General Properties of Time Correlation Functions; 7.2 An Illustration: The Velocity Autocorrelation Function and Self-Diffusion; 7.3 Brownian Motion and a Generalised Langevin Equation; 7.4 Correlations in Space and Time; 7.5 Inelastic Scattering of Neutrons and X-Rays; 7.6 Linear Response Theory; 7.7 Applications of the Linear Response Formalism; References; 8 Hydrodynamics and Transport Coefficients; 8.1 Thermal Fluctuations at Long Wavelengths and Low Frequencies; 8.2 Space-Dependent Self Motion

8.3 The Navier-Stokes Equation and Hydrodynamic Collective Modes

Sommario/riassunto

Comprehensive coverage of topics in the theory of classical liquids
 Widely regarded as the standard text in its field, Theory of Simple Liquids gives an advanced but self-contained account of liquid state theory within the unifying framework provided by classical statistical mechanics. The structure of this revised and updated Fourth Edition is similar to that of the previous one but there are significant shifts in emphasis and much new material has been added. Major changes and Key Features in content include: Expansion of existing sections on simulation me
