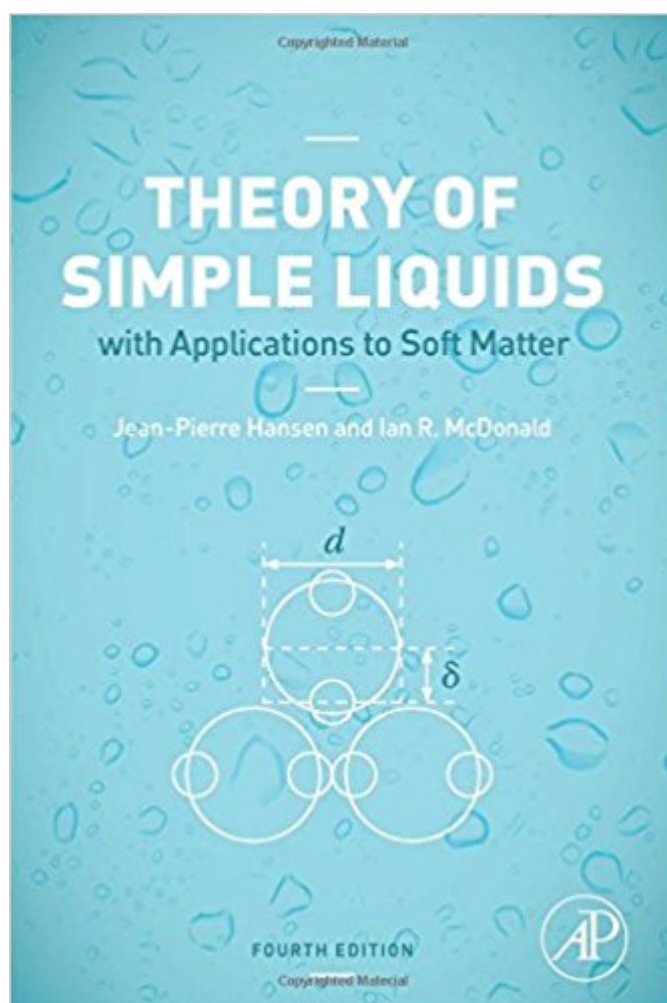


The book was found

# Theory Of Simple Liquids, Fourth Edition: With Applications To Soft Matter



## Synopsis

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 methods, liquid-vapour coexistence, the hierarchical reference theory of criticality, and the dynamics of super-cooled liquids. New sections on binary fluid mixtures, surface tension, wetting, the asymptotic decay of pair correlations, fluids in porous media, the thermodynamics of glasses, and fluid flow at solid surfaces. An entirely new chapter on applications to 'soft matter' of a combination of liquid state theory and coarse graining strategies, with sections on polymer solutions and polymer melts, colloidal dispersions, colloid-polymer mixtures, lyotropic liquid crystals, colloidal dynamics, and on clustering and gelation. Expansion of existing sections on simulation methods, liquid-vapour coexistence, the hierarchical reference of criticality, and the dynamics of super-cooled liquids. New sections on binary fluid mixtures, surface tension, wetting, the asymptotic decay of pair correlations, fluids in porous media, the thermodynamics of glasses, and fluid flow at solid surfaces. An entirely new chapter on applications to 'soft matter' of a combination of liquid state theory and coarse graining strategies, with sections on polymer solutions and polymer melts, colloidal dispersions, colloid-polymer mixtures, lyotropic liquid crystals, colloidal dynamics, and on clustering and gelation.

## Book Information

Paperback: 636 pages

Publisher: Academic Press; 4 edition (October 10, 2013)

Language: English

ISBN-10: 0123870321

ISBN-13: 978-0123870322

Product Dimensions: 6 x 1.4 x 9 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #361,602 in Books (See Top 100 in Books) #4 in [Books > Science & Math > Chemistry > Chemical Physics](#) #94 in [Books > Science & Math > Physics > Solid-State Physics](#) #99 in [Books > Engineering & Transportation > Engineering > Chemical > Fluid](#)

## Customer Reviews

"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 methods, liquid-vapour coexistence, the hierarchical reference theory of criticality, --Zentralblatt MATH, 1277.00030 "The editions have kept up with the fields, and this fourth contains many new sections of such matters as binary systems, the asymptotic decay of the pair correlation function, fluid flows at the interface with a solid, and the thermodynamics of supercooled liquids. The new chapter on applications to soft matter shows the recent and gradual convergence between two fields that have evolved separately."--ProtoView.com, January 2014

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 methods, liquid-vapour coexistence, the hierarchical reference theory of criticality, and the dynamics of super-cooled liquids. New sections on binary fluid mixtures, surface tension, wetting, the asymptotic decay of pair correlations, fluids in porous media, the thermodynamics of glasses, and fluid flow at solid surfaces. An entirely new chapter on applications to 'soft matter' of a combination of liquid state theory and coarse graining strategies, with sections on polymer solutions and polymer melts, colloidal dispersions, colloid-polymer mixtures, lyotropic liquid crystals, colloidal dynamics, and on clustering and gelation.

Good quality.

delivery on time receive it next day . This is a well made, very sharp product at a great price point. I'd definitely recommend it and would buy other products from the seller. Another nice touch is that the seller contacted me to ask if I was satisfied. I am. send it to my grandmother, helpful. feel good .

[Download to continue reading...](#)

Theory of Simple Liquids, Fourth Edition: with Applications to Soft Matter Theory of Simple Liquids: with Applications to Soft Matter Soft Condensed Matter (Oxford Master Series in Condensed Matter Physics, Vol. 6) Theory of Simple Liquids, Third Edition Theory of Simple Liquids, Second Edition Many Kinds of Matter: A Look at Solids, Liquids, and Gases (Lightning Bolt Books) My Yonanas Frozen Treat Maker Recipe Book: 101 Delicious Healthy, Vegetarian, Dairy & Gluten-Free, Soft Serve Fruit Desserts For Your Elite or Deluxe Machine (Frozen Desserts & Soft Serve Makers) Soft Corals: Selecting and Maintaining Soft Corals Feeding and Algal Symbiosis Lighting and Water Clarity (Creating the Reef Environment) The Molecular Theory of Gases and Liquids Fragile Objects: Soft Matter, Hard Science, and the Thrill of Discovery Soft Matter Physics Introduction to Soft Matter: Synthetic and Biological Self-Assembling Materials The Immunoassay Handbook, Fourth Edition: Theory and Applications of Ligand Binding, ELISA and Related Techniques A Matter of Time: Vol. 2 (A Matter of Time Series) Calder by Matter: Herbert Matter Photographs of Alexander Calder and his Work Hippocrates: Volume VIII, Places in Man. Glands. Fleshes. Prorrhetic 1-2. Physician. Use of Liquids. Ulcers. Haemorrhoids and Fistulas (Loeb Classical Library No. 482) Change It!: Solids, Liquids, Gases and You (Primary Physical Science) What Is the World Made Of?: All About Solids, Liquids, and Gases (Let's-Read-and-Find-Out Science 2) Solids, Liquids, And Gases (Rookie Read-About Science) Joe-Joe the Wizard Brews Up Solids, Liquids, and Gases (In the Science Lab)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)