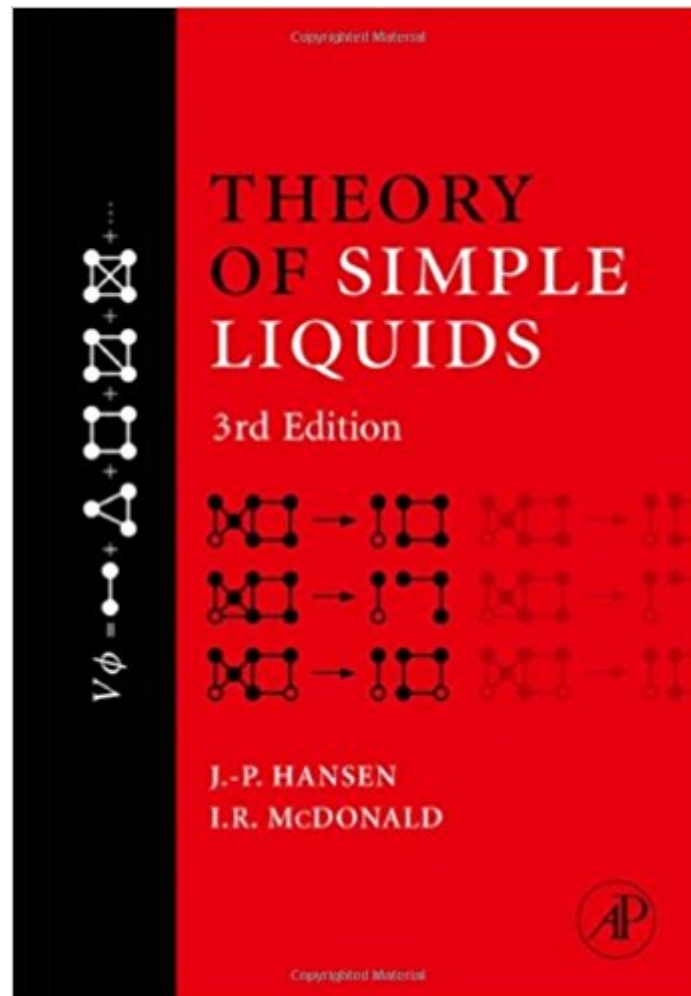




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Theory Of Simple Liquids, Third Edition



Synopsis

The third edition of Theory of Simple Liquids is an updated, advanced, but self-contained introduction to the principles of liquid-state theory. It presents the modern, molecular theory of the structural, thermodynamic interfacial and dynamical properties of the liquid phase of materials constituted of atoms, small molecules or ions. This book leans on concepts and methods from classical Statistical Mechanics in which theoretical predictions are systematically compared with experimental data and results from numerical simulations. The overall layout of the book is similar to that of the previous two editions however, there are considerable changes in emphasis and several key additions including:

- up-to-date presentation of modern theories of liquid-vapour coexistence and criticality
- areas of considerable present and future interest such as super-cooled liquids and the glass transition
- the area of liquid metals, which has grown into a mature subject area, now presented as part of the chapter on ionic liquids
- Provides cutting-edge research in the principles of liquid-state theory
- Includes frequent comparisons of theoretical predictions with experimental and simulation data
- Suitable for researchers and post-graduates in the field of condensed matter science (Physics, Chemistry, Material Science), biophysics as well as those in the oil industry

Book Information

Hardcover: 428 pages

Publisher: Academic Press; 3 edition (April 3, 2006)

Language: English

ISBN-10: 0123705355

ISBN-13: 978-0123705358

Product Dimensions: 6.1 x 0.9 x 9.2 inches

Shipping Weight: 2 pounds

Average Customer Review: 3.8 out of 5 stars 5 customer reviews

Best Sellers Rank: #3,807,019 in Books (See Top 100 in Books) #39 in [Books > Science & Math > Chemistry > Chemical Physics](#) #911 in [Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics](#) #1511 in [Books > Science & Math > Physics > Solid-State Physics](#)

Customer Reviews

Unique in its coverage of all aspects of simple liquids

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This is a classic book on the theory of simple liquids. It covers brilliantly both the statics and dynamics of the liquid state. A must have book for those who are serious to learn this challenging subject.

This book contains everything of the classical statistical mechanics for liquids.

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