

Dynamics of the Liquid State (Oxford Series on Neutron Scattering in Condensed Matter)

By *Umberto Balucani, Marco Zoppi*

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This book details the physical concepts and theoretical approaches developed to study the dynamical properties of high-density fluids at the microscopic level. After an incisive discussion of basic dynamical phenomena and various experimental probes, the book introduces the sophisticated theoretical techniques necessary for obtaining an in-depth account of both single particle and collective motions. Potential complications are addressed in a stepwise fashion, with special attention paid to the physical contents of the results. Well-written and comprehensive, *Dynamics of the Liquid State* will be welcomed by students and researchers in condensed matter physics and physical chemistry.

Dynamics of the Liquid State (Oxford Series on Neutron Scattering in Condensed Matter) By Umberto Balucani, Marco Zoppi **Bibliography**

- Sales Rank: #4729079 in Books
- Published on: 1995-02-09
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x .96" w x 6.38" l, 1.43 pounds
- Binding: Hardcover
- 352 pages



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Review

‘The result is a clear, carefully worded and pedagogically satisfactory text, which is practically self-contained for a reader with a basic knowledge of statistical and fluid mechanics.Balucani and Zoppi have produced a competent and clearly written text...’ Jean-Pierre Hansen, Oxford University, UK, Physics World, May 1995

‘...the book is a useful addition to the specialized literature, offering a comprehensive and diligent account of a limited area of research, at its current level of development. It should be useful to beginners for complementary reading after broader introductions to the liquid state of matter.’ Libri Ricevuti E Recensioni, 1996

About the Author

Umberto Balucani and Marco Zoppi are both Senior CNR Researchers at the Istituto di Elettronica Quantistica del Consiglio Nazionale delle Richerche (IEQ-CNR), Firenze.

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