



# Intermolecular and Surface Forces

By Jacob N. Israelachvili

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## Intermolecular and Surface Forces By Jacob N. Israelachvili

This book describes the roles of various intermolecular and interparticle forces in determining the properties of simple systems such as gases, liquids, and solids, of more complex colloidal, polymeric, and biological systems. The book provides a thorough grounding in theories and concepts of intermolecular forces, allowing students and researchers to recognize which forces are important in any particular system and how to control these forces.

### Key Features

- \* Surface-force measurements
- \* Solvation and structural forces
- \* Hydration and hydrophobic forces
- \* Ion-correlation forces
- \* Thermal fluctuation (steric and undulation) forces
- \* Particle and surface interactions in polymer melts and polymer solutions
- \* Contains worked examples, discussion topics, and more than 100 problems

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## Intermolecular and Surface Forces By Jacob N. Israelachvili Bibliography

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"Every once in a while a marvelous new book appears...a small gem in which are condensed the principles of phenomena that are governed by medium and long-term forces...A lucid and original examination of fundamental forces."

--ACCELERATOR NEWSLETTER, FEBRUARY 1988

#### **About the Author**

By Dr. Jacob N. Israelachvili

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