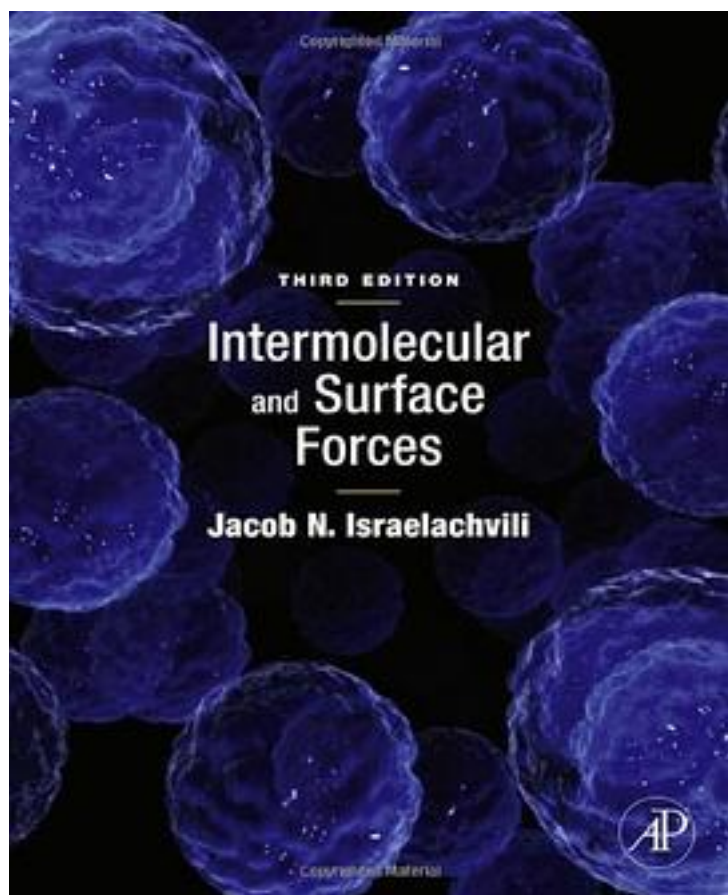


Intermolecular and Surface Forces, Third Edition



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著者:Israelachvili, Jacob N.

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This reference describes the role of various intermolecular and interparticle forces in determining the properties of simple systems such as gases, liquids and solids, with a special focus on more complex colloidal, polymeric and biological systems. The book provides a thorough foundation in theories and concepts of intermolecular forces,

allowing researchers and students to recognize which forces are important in any particular system, as well as how to control these forces. This third edition is expanded into three sections and contains five new chapters over the previous edition.

starts from the basics and builds up to more complex systems

covers all aspects of intermolecular and interparticle forces both at the fundamental and applied levels

multidisciplinary approach: bringing together and unifying phenomena from different fields

This new edition has an expanded Part III and new chapters on non-equilibrium (dynamic) interactions, and tribology (friction forces)

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EDUCATION

Ph.D.: 1971, University of Cambridge

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RESEARCH INTERESTS

Intermolecular and intersurface forces in biological, complex fluid and materials systems. Use of Surface Forces Apparatus for directly measuring the adhesion and friction forces between surfaces in liquids and vapors, and for studying other interfacial phenomena at the molecular level. Fundamental interactions in complex colloidal and biological systems that have technological and biomedical applications.

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评论

Classic textbook! I have been using it for many years now.

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书评

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