

Title Intermolecular And Surface Forces Third Edition

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~~Intermolecular Forces Lab~~Intermolecular Forces CHEMISTRY 101 - Effects of intermolecular forces on surface tension, viscosity, and capillary action

~~Intermolecular Forces~~

~~11th Chemistry Live, Ch 4, 4.1-Intermolecular forces - 11th Chemistry book 1 live~~2.3 Intermolecular Forces in Action: Surface Tension \u0026 Viscosity Ep9 Van der Waals forces between surfaces, Derjaguin approximation NANO 202 UCSD Title Intermolecular And Surface Forces

Intermolecular and Surface Forces 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.

~~Intermolecular and Surface Forces - Jacob N. Israelachvili -~~

Intermolecular forces can be categorized in a variety of ways. Some forces are purely electrostatic in origin, arising from the Coulomb force between charges. The interactions among charges, ions, permanent dipoles, quadrupoles, and so forth fall into this category.

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This book describes intermolecular and interparticle forces in determining the properties of systems such as gases, liquids and solids and of colloidal, polymeric and biological systems. The text includes developments on surface-force measurements, solvation and structural forces, hydration and hydrophobic forces, and ion-correlation forces.

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Previous edition entitled: Intermolecular and surface forces : with applications to colloidal and biological systems. Description: xxi, 450 pages : illustrations ; 24 cm: Contents: Part 1. The forces between atoms and molecules : principles and concepts --Ch. 1. Historical perspective --Ch. 2. Some thermodynamic aspects of intermolecular forces ...

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Additional Physical Format: Intermolecular and surface forces / Jacob N. Israelachvili,... Amsterdam : Elsevier, 2011 1 vol. (XXX-674 p.) 978-0-12-375182-9

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Title: Intermolecular and Surface Forces Intermolecular and Surface Forces, Jacob N. Israelachvili: Author: Jacob N. Israelachvili: Edition: 3, illustrated: Publisher: Academic Press, 2015: ISBN: 0080923631, 9780080923635: Length: 710 pages: Subjects

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Stronger intermolecular forces → higher viscosity. Surface Tension. Surface tension is a measure of the toughness of the surface of a liquid; Stronger intermolecular forces → higher surface tension. Vapour Pressure. This is a small amount of gas that is found above all liquids. Refer to our lesson about vapour pressure to learn about it. Stronger intermolecular forces → Lower vapour pressure.

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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 dydrophobic forces, Ion-correlation forces, Thermal fluctuation,(steric and undulation) forces, Particle and surface interactions in polymer melts and polymer solutions and Contains ...

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In molecular physics, the van der Waals force, named after Dutch scientist Johannes Diderik van der Waals, is a distance-dependent interaction between atoms or molecules.Unlike ionic or covalent bonds, these attractions do not result from a chemical electronic bond; they are comparatively weak and therefore more susceptible to disturbance.The van der Waals force quickly vanishes at longer ...