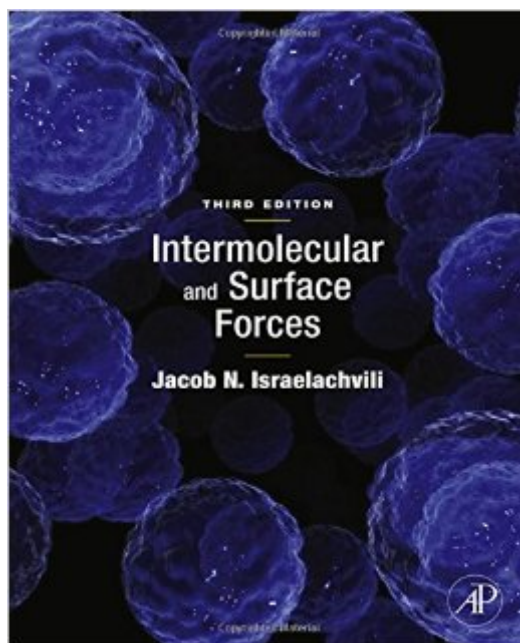


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Intermolecular And Surface Forces, Third Edition: Revised Third Edition



Synopsis

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).

Book Information

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Customer Reviews

I had the honor of taking a class from the author himself, based upon this text. 10 years later, I still refer to this text in my industrial career. It is comprehensive with regards to the fundamentals... Compared to others that focus more on art and observations, you are presented with the underlying physics, allowing you to deal with entirely novel situations. Compared to classical physics presentations, you receive things in concise and logical terms without excessive theory or mathematical derivation. Its crowning achievement is its ability to make the physics accessible to

graduate and advanced undergraduate chemists or biologists, paving the way for deeper interdisciplinary achievement.

The improvements to the third edition, over the second, are well worth the more than a decade of waiting. Nothing in the content is worse, and some additions are great. However, the product itself--the physical book--is disappointing. Apparently concerned that an e-book savvy public will no longer pay the price required to publish a decent book, the publishers have opted to cut corners in all of the worst ways. To bring the price down into whatever the range is that was indicated by the exhaustive research of their marketing department (which seems to have consisted of a bunch of junior-year unpaid interns sitting around trying to figure out how much THEY might spring for a textbook) the modest geniuses at academic press have opted to print on uncoated (although recycled) stock. This has the twin disadvantages of poor archival quality, and poor printing quality. To compensate for the latter, the text must be printed in larger font, since teeny-weeny letters will smear together on the uncoated stock. The result is a book that is much too large for its content. It is unwieldy, unattractive, and the pages feel both rough to the touch, and soft enough to tear easily. An added disadvantage is that more pages means the places you want to turn to in the book are farther apart, meaning that you have to handle the unattractive and flimsy pages more than you want to. I would not be surprised if there is a surreptitious effort to promote this kind of bad-feeling book to herd the general public toward the Kindle(R).

If you want to learn about the title subject, this is a great intro book. And it's probably the most enjoyable theory book you are likely to own, if you purchase it.

I used this book extensively while writing up my PhD in Materials Science for calculating interparticle forces in colloidal systems. It's very well written and thorough in all aspects of the subject matter. And yet even though the subject itself is rather dry, the book is not a difficult read, unlike some other theoretical textbooks that I have.

The 3rd edition of Intermolecular and Surface Forces is an updated and expanded version of an important book concerned with interaction phenomena that take place from the molecular level up to the macroscopic level. The strength of this book is that it elucidates the outcome of different experiments on friction, lubrication, and adhesion phenomena on the basis of phenomenological theories. In addition, the introduction in each chapter of worked examples, problems, and discussion

topics confers to this book a very high educational value. If you want to deepen your knowledge about the historical aspects of this field then check Rowlinson's book Cohesion: A Scientific History of Intermolecular Forces; for deepening your knowledge about the quantum mechanical nature of intermolecular forces, then see Stone's book The Theory of Intermolecular Forces, now in its 2nd edition.

Great informative read. Not often does a book of this scientific magnitude translate into something that the reader can tolerate for more than 3 pages. For anyone looking to explore into this the world of Intermolecular and Surface Forces, look no further. Quite pleased and refreshing for students in particular.

This text is perfect for the reader who can read graphs and diagrams. A picture is worth a thousand words and so are graphs and diagrams. This text is chock full of graphs with all the information that you may need for an undergraduate or graduate course. I love this book. Its an excellent reference.

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