



Molecular Theory of Solutions

By Arieh Ben-Naim

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This book presents new and updated developments in the molecular theory of mixtures and solutions. It is based on the theory of Kirkwood and Buff which was published more than fifty years ago. This theory has been dormant for almost two decades. It has recently become a very powerful and general tool to analyze, study and understand any type of mixtures from the molecular, or the microscopic point of view. The traditional approach to mixture has been, for many years, based on the study of excess thermodynamic quantities. This provides a kind of global information on the system. The new approach provides information on the local properties of the same system. Thus, the new approach supplements and enriches our information on mixtures and solutions.

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Molecular Theory of Solutions By Arieh Ben-Naim Bibliography

- Rank: #4055046 in eBooks
- Published on: 2006-10-05
- Released on: 2006-10-05
- Format: Kindle eBook

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Review

"The book will serve for decades as a major reference in the field."--*Robert M. Mazo, University of Oregon*

"..It will be useful not only as a research monograph but also as a text in advanced courses on the topic."--*Physics Today*

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Born in Jerusalem, Israel. I did my Masters and PhD at The Hebrew University of Jerusalem. I did my post doctorate at the University of Stony Brook and at Bell Laboratories. I had been teaching at The Hebrew University of Jerusalem since 1967. During my numerous travels, I taught and collaborated in various universities and research institutes around the world.

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