



Liquid-State Physical Chemistry: Fundamentals, Modeling, and Applications

By Gijsbertus de With

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For many processes and applications in science and technology a basic knowledge of liquids and solutions is a must. Gaining a better understanding of the behavior and properties of pure liquids and solutions will help to improve many processes and to advance research in many different areas. This book provides a comprehensive, self-contained and integrated survey of this topic and is a must-have for many chemists, chemical engineers and material scientists, ranging from newcomers in the field to more experienced researchers. The author offers a clear, well-structured didactic approach and provides an overview of the most important types of liquids and solutions. Special topics include chemical reactions, surfaces and phase transitions. Suitable both for introductory as well as intermediate level as more advanced parts are clearly marked. Includes also problems and solutions.

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About the Author

Gijsbertus de With is full professor in materials science. He graduated from Utrecht State University and received his PhD in 1977 from the University of Twente on the 'Structure and charge distribution of molecular crystals'. In the same year he joined Philips Research Laboratories, Eindhoven. In 1985 he was appointed part-time professor and in 1996 he became full professor at the Eindhoven University of Technology. Since 2006 he is also chairman of the Soft Matter CryoTEM Research Unit. His research interests cover structural and interfacial phenomena in relation to the processing and behavior of multi-phase materials. He has (co)-authored more than 250 research papers and holds about 20 patents. He is a member of the Advisory board of the J. Eur. Ceram. Soc. and is presently co-organizer of the annual Coatings Science International conferences. In 2006 his two volume monograph Structure, Deformation, and Integrity of Materials was published.

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