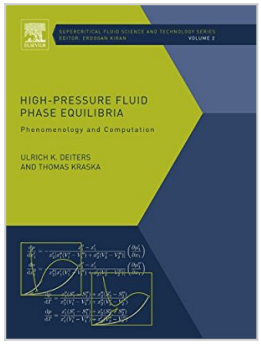


# High-Pressure Fluid Phase Equilibria: Phenomenology and Computation (Supercritical Fluid Science and Technology)

*By Ulrich K Deiters, Thomas Kraska*



**High-Pressure Fluid Phase Equilibria: Phenomenology and Computation (Supercritical Fluid Science and Technology)** By Ulrich K Deiters, Thomas Kraska

The book begins with an overview of the phase diagrams of fluid mixtures (fluid = liquid, gas, or supercritical state), which can show an astonishing variety when elevated pressures are taken into account; phenomena like retrograde condensation (single and double) and azeotropy (normal and double) are discussed. It then gives an introduction into the relevant thermodynamic equations for fluid mixtures, including some that are rarely found in modern textbooks, and shows how they can they be used to compute phase diagrams and related properties. This chapter gives a consistent and axiomatic approach to fluid thermodynamics; it avoids using activity coefficients. Further chapters are dedicated to solid-fluid phase equilibria and global phase diagrams (systematic search for phase diagram classes). The appendix contains numerical algorithms needed for the computations. The book thus enables the reader to create or improve computer programs for the calculation of fluid phase diagrams.

- introduces phase diagram classes, how to recognize them and identify their characteristic features
- presents rational nomenclature of binary fluid phase diagrams
- includes problems and solutions for self-testing, exercises or seminars

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**Derek Clancy:**

The book untitled High-Pressure Fluid Phase Equilibria: Phenomenology and Computation (Supercritical Fluid Science and Technology) contain a lot of information on it. The writer explains her idea with easy technique. The language is very clear and understandable all the people, so do not necessarily worry, you can easy to read the item. The book was authored by famous author. The author will take you in the new time of literary works. It is possible to read this book because you can keep reading your smart phone, or model, so you can read the book within anywhere and anytime. If you want to buy the e-book, you can start their official web-site and order it. Have a nice study.

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