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*By Roland Span*



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## Multiparameter Equations of State: An Accurate Source of Thermodynamic Property Data By Roland Span

As a basis for printed property charts and tables, empirical multiparameter equations of state have been the most important source of accurate thermodynamic property data for more than 30 years now. However, due to increasing demands on the accuracy of thermodynamic property data in computerised calculations as well as the availability of appropriate software tools, and the ever increasing computer power, such formulations are nowadays becoming a valuable tool for everyday work. This development has substantially increased the number of scientists, engineers, and students who are working with empirical multiparameter equations of state, and it continues to do so. Nevertheless, common knowledge on this kind of thermodynamic property models and on the ongoing progress in this scientific discipline is still very limited. Multiparameter equations of state do not belong to the topics which are taught intensively in thermodynamic courses in engineering and natural sciences and the books and articles where they are published mainly deal with the thermodynamic properties of certain substances rather than with the theoretical background of the used equations of state. In contrast to this, my concern mainly was to give a survey of the theoretical background of multiparameter equations of state both with regard to their application and their development.



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### **Editorial Review**

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As basis of printed property charts and tables, empirical multiparameter equations of state are the most important source of accurate thermodynamic property data for more than 30 years now. However, due to increasing demands on the accuracy of thermodynamic property data in computerised calculations, to the availability of appropriate software tools, and to increasing computer power, such formulations became a valuable tool for every days work nowadays. This development has increased the number of scientists, engineers, and students who are working with empirical multiparameter equations of state. Nevertheless, the common knowledge on this kind of thermodynamic property models and on the ongoing progress in this scientific discipline is still very limited. This book is the first attempt to summarise the available know-how from the fundamentals to very recent developments in a single reference. Since the book is dedicated both to common users and to scientists who want to engage themselves in the development of multiparameter equations of state, general topics like the application of empirical equations of state or typical performances of different classes of formulations are discussed separately from advanced topics like the optimisation of the functional form or the improved representation of properties in the critical region. In this way, the book becomes a useful reference for readers with very different background. 480 references, 352 equations, 154 figures, and 36 tables underline the ambitiousness of this approach.

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