

THERMODYNAMICS OF SOIL MOISTURE¹)

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SUMMARY

The various equations used by several authors to express the partial molar free energy of soil moisture as a function of certain parameters are compared with a "parent" equation derived in this paper. It is pointed out that aside from differences in terminology also some more basic differences of approach seem to exist, which only lead to identical results under certain limiting conditions. It is shown that from this "parent" equation some equations with practical applicability may be derived. The methods available for the experimental determination of the partial molar free energy of soil moisture are reviewed, with special reference to the assumptions underlying the application of the freezing point depression of soil moisture.

1. INTRODUCTION

Since the appearance of Emerson and Axnesson's "Thermodynamics of Soil moisture" in 1943 (6) several authors (ref. 1 through 15) have attempted to extend the treatment given by E. and A. in the light of increasing knowledge of the system soil-water. Although undoubtedly useful improvements on the original approach of Emerson and Axnesson were obtained, at the same time a diversion in the use and meaning of certain thermodynamic variables occurred which may occasionally give rise to confusion. This diversion in terminology is partly a matter of personal preference, although in certain cases differences of opinion may exist with regard to the principles governing the interaction between water and solid phase.

As progress in any field is always hindered by such a lack of unanimity in symbols and definitions, it would seem useful to reconsider the existing literature in order to establish in what respect differences are only of superficial nature or whether actually basic differences of opinion exist. This should be of special interest to those, who, although not having worked on the subject themselves, are concerned with the application of the thermodynamics of soil moisture to soil physical problems.

Naturally it is outside the scope of this paper to give complete derivations of all thermodynamic equations employed. Instead it has been attempted to give satisfactory evidence for the equations to render them plausible and allow the reader to acquire an insight in their background and limitations. For further detail the reader is referred to standard textbooks and to ref. 6.

As will be shown it seems doubtful whether one generalized equation for the system soil water will exist, which combines absolute generality with both sufficient detail and practical applicability. Depending on the specific nature of the system considered, different variables may be determinable, and accordingly different "working" equations would be preferred. Nevertheless it should be possible to relate all these equations to one "parent" equation which, although

¹) Received for publication December 18, 1959.

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C. M. A. De Bruijn

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Encyclopedia of Soil Science Ward Chesworth, 2007-11-22 The Encyclopedia of Soil Science provides a comprehensive alphabetical treatment of basic soil science in a single volume. It constitutes a wide ranging and authoritative collection of some 160 academic articles covering the salient aspects of soil physics, chemistry, biology, fertility, technology, genesis, morphology, classification, and geomorphology. With increased usage of soil for world food production, building materials, and waste repositories, demand has grown for a better global understanding of soil and its processes. Longer articles by leading authorities from around the world are supplemented by some 430 definitions of common terms in soil sciences.

The Influence of Soil Compaction Upon the Thermodynamics of Soil Moisture James E. Box Jr., 1961 The retention of water in soils is a very interesting subject. Soil water research presents a great challenge to research workers. The challenge is broad in scope and extends from the field problems of large irrigation projects to the atomic scale of the solid-liquid interface. If scientists are going to describe scientifically soil water relations, they must ultimately utilize the instruments of science and the language of mathematics. To the end of the latter, the mathematics of thermodynamics has been applied in these studies of water retention in soils.

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