

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 ANDERSON'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 ANDERSON 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.

Thermodynamics Of Soil Moisture

Irwin Remson, James R. Randolph



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Thermodynamics of Soil Moisture N. E. Edlefsen, Alfred B. C. Anderson, California Agricultural Experiment Station, 1943

Thermodynamics of Soil Moisture Jack Ellis Chatelain, 1948 A New Interpretation of the Thermodynamics of Soil Moisture Kenneth Leslie Babcock, 1955 Thermodynamics of Soil Moisture by N. E. Edlefsen and Alfred B. C. Anderson N. E. Edlefsen, 1980 **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.

Soil-Water Interactions Iwata, 2020-08-26. Emphasizing pioneering achievements, this work offers a clear and systematic description of various soil water phenomena and their applications to soil problems such as water retention and the flux of water in soils and clays. This second edition contains material on the physical properties of adsorbed water, the application of fractal theory to solute and water flows in field soils, fingering research, and more.

Thermodynamics of Expansive Soils C. M. A. De Bruijn, 1963 Review of Some Elements of Soil-moisture Theory Irwin Remson, James R. Randolph, 1962 **Humidity and Moisture: Fundamentals and**

standards. A. Wexler and W.A. Wildhack, editors. Arnold Wexler, 1965 **Thermodynamics of Water Movement in Soil** John W. Cary, Sterling A. Taylor, 1962 Soil Moisture, 1967 **Selected Water Resources Abstracts**, 1990

Views on Microstructures in Granular Materials Pasquale Giovine, Paolo Maria Mariano, Giuseppe Mortara, 2020-11-09. This contributed volume provides an up to date overview of the mechanics of granular materials ranging from sparse media to soils. With chapters exploring state of the art theoretical, experimental, and applied trends in the study of granular matter in various states, readers will be motivated to learn about the current challenges and potential avenues of exploration in this active area of research. Including a variety of perspectives, this volume will be a valuable reference for audiences in a number of fields. Specific topics covered include X-ray tomography techniques for analyzing sand, evaluation of effective stress in unsaturated soils, hyperplasticity, wave propagation in granular systems, partly saturated porous media.

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Physical Aspects of Soil Water and Salts in Ecosystems A. Hadas,Dale Swartzendruber,P.E. Rijtema,M. Fuchs,B. Yaron,2012-12-06 The papers collected in this book were given and discussed at the symposium on Soil water physics and technology which was held in Rehovot Israel from August 19th September 4th 1971 It was sponsored by the International Society of Soil Science 1 S S S through its Commissions I soil physics and VI soil technology and organized by the Israeli Soil Science Society Thanks are due to the Editors for having assembled contributions and discussion remarks into a well rounded coherent book The subjects covered in this book are the theoretical and practical aspects of the following topics water movement in soils soil water interactions evaporation from soil and plants water requirements of crops ion activity and migration in soils soilwater management and salinity In as much as these contributions were not solicited they represent ideas and subjects considered important by the authors and debators In science one often finds a gap between basic research and practical application If reading this book creates a feeling of an apparent lack of balance between theory and practice this represents the state of our science today and the thoughtful reader can and will recognize that much remains to be done

W R GARDNER T MARSHAL President Commission I President Commission VI 1 5 5 5 **Experiment Station Record** United States. Office of Experiment Stations,1943 *Chemo-Mechanical Coupling in Clays: From Nano-scale to Engineering Applications* C. Di Maio,T. Hueckel,B. Loret,2002-01-01 Clay behaviour is affected by coupled mechanical and chemical processes occurring in them at various scales The peculiar chemical and electro chemical properties of clays are the source of many undesired effects These papers provide insight into the variables controlling clay behaviour *An Analysis of the*

Irreversible Thermodynamics Model for Coupled Heat and Moisture Transport Phenomena in Unsaturated Porous Media Jerry A. Havens,1980 **Bioclimatology and Natural Hazards** Katarína Strelcová,Csaba Matyas,Axel Kleidon,Milan Lapin,František Matejka,Miroslav Blazenec,Jaroslav Škvarenina,Jan Holecý,2008-11-30 Anthropogenic influences to the earth s system including the atmosphere hydrosphere biosphere cryosphere and lithosphere represent a serious challenge to our planet s ecosystems and natural environments Bioclimatology hydrology bio hydrology and eco physiology are important scientific research areas with wide application to environmental protection forestry agriculture and water management and protection against natural hazards including droughts floods windstorms weather extremes and wild fires Bioclimatology helps to better understand the causes and impacts of natural hazards and how to prevent them Improved knowledge of natural hazards is a vital prerequisite for the implementation of integrated resource management It provides a useful framework for combating current climate variability and for adapting to ongoing climate change This book presents research on the interactions between meteorological climatological hydrological and biological processes in the atmospheric and terrestrial environment It highlights a spectrum of topics associated with climate change and weather extremes and their

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