

offset from typewritten copy, the formats of the chapters are not always uniform, and some minor spelling errors are evident. Despite shortcomings like these, this book provides up-to-date references and basic information on each subject and constitutes a good source for those needing information on various techniques.

Twenty years ago, only a few techniques were suitable for characterizing clay minerals, unlike the present, when many physical techniques have been applied to the study of clay minerals. Analysis at the atomic level gives more precise and specific results. Also, owing to improvement in instrumentation, more information can now be gathered from the various techniques. Such information as images of local atomic arrangement, surface chemical analysis, and interlayer cation mobility in clay minerals, not previously attainable, is now within reach by using the techniques set forth. A revolution in the analysis of clay minerals is taking place. It is evident that most of the techniques described will become routine methods in the future.

PING PING TSAI
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Chelated Mineral Nutrition in Plants, Animals and Man. Dewayne Ashmead, ed. Charles C Thomas, Springfield, Ill. 325 pp. \$37.75

This volume is the result of an international conference held in Salt Lake City, Utah, 7-9 February 1980. The 34 papers in the volume focus on the assimilation and use of essential metals that have been chelated to amino acids and emphasize the optimal absorption and metabolism of minerals, their value, and their economics. The introduction to the conference, which primarily was for users—farmers, veterinarians, health workers, etc.—was given by the governor of the State of Utah.

The conference was sponsored by the Albion Laboratories, Inc. of Clearfield, Utah, which manufactures a line of products (Metalosates) derived from metals chelated with amino acids hydrolyzed from natural products. The company has a long, successful record in the veterinary field and a shorter but successful one in health vitamins and minerals. It is a newcomer into the agricultural crops field, however, and a major purpose of the conference was to indicate serious intentions of providing plant nutrients for crops, particularly micronutrients.

Albion has excellent analytical facilities for soil and plant analyses, which include an induc-

tive coupled plasma spectrometer. Analyses are made for growers, and the results are used, with a computer program called TEAM, to develop a plant nutrient corrective procedure for the specific farm that submitted the samples. A statement from the book by one of Albion's staff:

Last year in the midwestern United States, we treated around 100,000 acres with 85 percent effectiveness in increasing yields above the cost of product plus application. I might add that these results were using Albion's multiminerals on corn, soybeans, wheat, barley, oats, hay, tomatoes, tobacco, and garden crops. The spraying was also done on most all of these crops just prior to flowering which is actually too late. In the 15 percent where we did not get enough return for the cost of product application, we went back to the farm and took soil tests. In every case we found zinc, manganese, and sulfur deficiencies with some calcium (pH problems), copper, and boron problems.

These observations are encouraging, but examination of the 12 papers under plant nutrition will quickly reveal that the company really did not yet have a firm scientific basis for use of its products. With its excellent facilities this should be forthcoming in the future, but, as of the time of the conference, the proof is in the general nature of a number of happy users. Although this kind of reporting never makes good science, it does result in interesting reading in places. Sometimes the case for Albion products is obviously overstated, especially on page 114 where claims are made for such things as better germination, reduced NPK needs, decreased water requirements, faster maturation, and improved temperature-stress hardiness. The inclusion of several papers by university workers on generalized topics and prepared for a lay audience does not give needed scientific proof of the value of the products. The products very likely do have value in foliar sprays for application of micronutrients.

The progress with animals is far ahead of that for plants. An exciting set of results from page 229 is an example:

1. The baby pigs in the Metalosate group were farrowed nonanemic and did not require any iron injection.
2. The average birth weight was 88 grams

Chelated Mineral Nutrition In Plants Animals And Man

H. DeWayne Ashmead



Chelated Mineral Nutrition In Plants Animals And Man:

Chelated Mineral Nutrition in Plants, Animals and Man DeWayne Ashmead,1982-05-01 **Chelated Mineral Nutrition in Plants, Animals, and Man** H. DeWayne Ashmead,1982 **Foliar Feeding of Plants with Amino Acid Chelates** H. DeWayne Ashmead,1986 Het belang van chelaten bij de opname van mineralen wordt in dit boek onderstreept Van de 40 elementen in planten blijken er 25 essentieel te zijn voor de plantenvoeding Deze elementen worden beschreven waarbij methoden tot vergroting van de beschikbaarheid van deze elementen voor planten aan de orde komen met het oog op een verbeterde plantenkwaliteit en gewasproductie Proeven zijn gedaan bij fruitbomen sojabonen granen en wijnstokken

Handbook of Plant Nutrition Allen V. Barker,David J. Pilbeam,2015-05-14 In 2007 the first edition of Handbook of Plant Nutrition presented a compendium of information on the mineral nutrition of plants available at that time and became a bestseller and trusted resource Updated to reflect recent advances in knowledge of plant nutrition the second edition continues this tradition With chapters written by a new team o **Proceedings** ,1983 **Nutrition** ,1983 Integrating Complementary Medicine into Veterinary Practice Paula Jo Broadfoot,Richard E. Palmquist,Karen Johnston,Jiu Jia Wen,Barbara Fougere,2009-03-03 Integrating complementary treatment options with traditional veterinary practice is a growing trend in veterinary medicine Veterinarians and clients alike have an interest in expanding treatment options to include alternative approaches such as Western and Chinese Herbal Medicine Acupuncture Nano Pharmacology Homotoxicology and Therapeutic Nutrition along with conventional medicine Integrating Complementary Medicine into Veterinary Practice introduces and familiarizes veterinarians with the terminology and procedures of these complementary treatment modalities in a traditional clinical format that facilitates the easy integration of these methods into established veterinary practices

Intestinal Absorption of Metal Ions and Chelates H. DeWayne Ashmead,Darrell J. Graff,Harvey H. Ashmead,1985 **Animal Health & Nutrition for Food Animal Veterinarians** ,1985 Promise of the Fountain Michael Capria,1993-10 **Current Catalog** National Library of Medicine (U.S.),1982 First multi year cumulation covers six years 1965 70 *Journal of the American Dietetic Association* American Dietetic Association,1925 Conversations on Chelation H. DeWayne Ashmead,1989 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1982 **Federation Proceedings** Federation of American Societies for Experimental Biology,1982 *Nutrient Availability* D. A. T. Southgate,I. T. Johnson,G. R. Fenwick,1989 Abstract This book contains the proceedings of a conference which emphasized the value of nutrient bioavailability as a unifying concept and to draw together the many threads from chemistry physics and the biological sciences which are essential to its proper understanding Topics of the numerous contributions include the concept and significance of nutrient bioavailability physical and chemical techniques for the measurement of bioavailability analytical techniques the importance of speciation the bioavailability of the trace minerals iron and zinc the bioavailability of other minerals and toxic minerals and the bioavailability of organic nutrients and energy

Egyptian Journal of Physiological Science ,1985 *Subject Catalog, 1982* Library of Congress,1982 □□□□□□□□□□□□
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