

substitution in the central nervous system and his finding of greater extracellular distances in normal tissue, especially in unmyelinated axon fields. The book also deals with the extensive literature on experimental studies using "extracellular" indicators, although the most recent studies defining the "sink" effect of cerebrospinal fluid on the steady-state concentration of certain substances in brain have not been included. This is the natural hazard of publication in a rapidly evolving field.

It was a pleasure to read Van Harreveld's lucid account of this intriguing biological subject. It is particularly useful to have his own work brought together in a single volume and to have his concise, personal synthesis of the current status of the problem of the magnitude of the extracellular compartment of the central nervous system.

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Analyses of Materials

Archeological Chemistry. Papers presented at a symposium held in Atlantic City, N.J., September 1962, sponsored by the Division of History of Chemistry, American Chemical Society. MARTIN LEVY, Ed. University of Pennsylvania Press, Philadelphia, 1967. 365 pp., illus. \$8.50.

Although this reviewer ordinarily takes a dim view of books made from "proceedings" because of their miscellaneous content and their uneven quality, he must admit that this selection contains much information that is useful. The authors are persons well known within this small field; most of the authors, who include industrial chemists, college professors, and research scientists, pursue archeological chemistry as a subordinate occupation, but some are museum staff members and conservators. Because many are well known to the reviewer he would like to mention all by name and subject, but regrettably this is impossible within the confines of this review. Collectively the papers illustrate how well modern analytical techniques, both chemical and physical, can assist in the full interpretation of the material cultures of the ancients. Nearly the whole range of modern techniques is employed. In the lead paper it is told how infrared spectrophotometric analysis made possible the identification of dyes used on 1800-year-old woolen tex-

tiles recovered from caves in the Judean desert. There are two papers on ancient glass, one reporting many wet chemical analyses on glass from central Asia, the other giving spectrochemical analyses on early glass objects from the Middle East, that lead to conclusions about raw materials of glass manufacture, including colorants and opacifiers. There are eight papers that deal primarily with metals; they show how wet chemical analysis, x-ray fluorescence spectrophotometry, x-ray diffraction, electron microbeam probe analysis, radiography, metallography, and even hardness testing can all contribute to knowledge of how the ancients won and worked metals. One paper deals with cement mortars of Poland, another with ceramics of India, and finally there is one on the pigments, natural and artificial, used over a span of 2000 years by painters of Japan.

This fine collection of reports, useful as it is, brings to focus a matter that has long disturbed the reviewer. Chemists for well over a hundred years have published many hundreds, even thousands of quantitative chemical analyses made on ancient objects of all kinds. Unfortunately, many of these are of limited value, or have no value at all, because of failure to describe the exact provenance or source of the objects, to describe their condition, or even to illustrate them. More seriously, the analyst often has not troubled to mention the method of sampling, the size of the sample taken, or the method of analysis (although this can often be inferred from the data or the context). In spectrochemical analysis there is often failure to mention limits of detection or elements sought and not found. Seldom is mention made of the accuracy claimed. Averages of multiple analyses are sometimes listed without giving the range of the data averaged; hence the data are not statistically meaningful. The result is that many times the analytical data of different investigators, even where they employ the same general method, cannot be compared. These oversights not only annoy later investigators who want to make use of the data but, more seriously, they lead archeologists or other nonprofessional users of the data into pitfalls. The latter are inclined to believe that analytical chemistry is an exact science—even to the third doubtful decimal place—which is not the case. Analytical chemistry is still an art based on scientific principles. The cautious

analytical chemist speaks of his findings as an "estimate." If the archeologists were better acquainted with indirect methods of analysis based on "standards" they would accept analytical findings with more reserve.

Among the papers in this book nearly all the sins possible in reporting analytical data are illustrated. (The paper of Sayre and Smith on glass analysis is an exception.) Editors must share some of the blame. They should recognize such deficiencies and require of authors additional detailed information about procedures. Among these papers a few short footnotes could have provided all the missing information. Let us suggest that the next symposium on archeological chemistry choose as its theme "The Presentation and Interpretation of Analytical Data in Archeological Chemistry."

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The Color Center

F-Centers in Alkali Halides. Solid State Physics, Supplement 8, JORDAN J. MARKHAM. Academic Press, New York, 1966. 412 pp., illus. \$16.

More than a century ago Kirchhoff and Bunsen, each of whom was much better known for other things, found that ordinary salt took on a beautiful color when heated in sodium vapor. Pohl, who at Göttingen in the '20's and '30's saw the connection between Bunsen's coloration and the electronic properties of photoconductors and phosphors and fathered a whole new field of research, named the principal colored species the *Farbenzentrum*, or "*F* center." Thanks to magnetic resonance we now know that this center is just an electron trapped in a negative-ion vacancy.

Even in this age of specialization, it is not often that one comes across a book so unabashedly specialized as Markham's *F-Centers in Alkali Halides*. Although the number of known color centers is now well over 20 and the *F* center has many interconnections with the others, Markham sticks to his title and concerns himself primarily with what an *F* center *is*, rather than with processes in which *F* centers are involved. Readers expecting to learn, for example, how *F* centers migrate together to form *M* centers or how *Z* centers are made from *F* centers and impurity atoms, or to inform themselves

F Centers In Alkali Halides Solid State Physics Supplement 8

P. M. Platzman



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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of F Centers In Alkali Halides Solid State Physics Supplement 8.

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