

Histopathologic Technic and Practical Histochemistry

It is quite difficult to retain, digest, and extract the significance of these many studies. The brief summaries at the end of each chapter do not accomplish this function.

The foregoing are minor flaws, however, in an otherwise commendable book. On the positive side, the author's thorough treatment of the technical and difficult subject of scale analysis, his chapter on the applications of attitude measurement to industry, and his review of indirect methods of measurement are excellent.

Extensive bibliographies at the end of each chapter are helpful for those interested in a more detailed exploration of the subjects treated.

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Ion Transport across Membranes. Papers presented at a symposium at the College of Physicians and Surgeons, Columbia University, Oct. 1953. Hans T. Clarke, Ed.; David Nachmansohn, Assoc. Ed. Academic Press, New York, 1954. xi + 298 pp. Illus. \$7.50.

The papers presented at a symposium on *The Role of Proteins in Ion Transport across Membranes* are collected in this volume, together with six other contributions. In the first paper, Usaing gives a useful summary of the results of ion transport studies. In the second paper, by Hodgkin, electric processes in nerve conduction are described for the benefit of physicians and chemists rather than for physiologists. The summary is a highly abridged version of the explanations offered by the author for the relationship between membrane potential changes and transfers of Na^+ and K^+ . "The generation of bioelectric potentials" is the title of a paper by Wilson and Nachmansohn, and this, perhaps more appropriately entitled "Studies on acetylcholine," contains the well-known views of these authors on the relationship between an interesting note, show that a reacting mixture of ACh and its esterase has a greater ultraviolet absorption than the sum of its components, and that light-scattering measurements fail to demonstrate a change in the shape of the protein when it interacts with ACh.

Farpert and Hoffman in "Ion permeability of the red cell" provide an up-to-date summary of the various problems existing in this field. A paper by Mudge on "Renal mechanisms in electrolyte transport" contains much interesting material, especially at the cellular and histochemical level. Two very interesting theoretical contributions follow, the first by Parlin and Eyring on "Permeability and electric potential" and the second on "Transport of ions through biological membranes from the standpoint of irreversible thermodynamics" by Kirkwood. The use of ion-exchange membranes to secure electrodes where neither oxidation nor reduction takes place is discussed by Scotchard and by Sollner, Drey, Grin and Nohof. These latter authors also present a large amount of experimental data on colloid and other types of

membranes. A paper by Hill, "Theory of protein solutions," is an application of statistical-mechanical considerations to the thermodynamic properties of protein solutions. "The interaction of proteins and ions, with special reference to mercury derivatives of mercaptalbumin," by Edsall, "The specificity of metal-protein interactions," by Gurd, and "Equilibrium and sedimentation of uncharged particles in inhomogeneous electric fields," by Debye, complete the volume.

By way of general comment, although the contributions are all of high quality, there seems little homogeneity to the subject matter of the volume. The original title of the symposium has been dropped as a title for this volume, presumably because none of the contributions deal with this problem; indeed, it has not been possible to connect proteins with the transport of sodium or potassium ions. Only four papers out of 14 deal with ion transport from an experimental point of view, two papers deal with theoretical problems in ion transport, and the rest are contributions to protein chemistry or high polymer chemistry.

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Histopathologic Technic and Practical Histochemistry. Rev. ed. of *Histopathologic Technic*. R. D. Lillie. Blakiston, New York, 1954. ix + 501 pp. \$7.50.

This is a very personal book, in which a distinguished and able pathologist makes available to his fellow-workers the methods that he has found helpful or interesting during his many years of experience. The author has been a pioneer in the application of histochemical procedures for the study of pathologic tissue. His interest in histochemistry has been largely within the realm of those reactions that can be applied to sections or tissues on a slide rather than in exploitation of fragmentation and differential centrifugation methods or microchemistry of a test-tube nature applied to tiny tissue fragments or sections.

Within his chosen area Lillie has included many methods useful for localizing compounds, groups, or enzymes in tissue sections. These are presented more or less in cook-book fashion, each accompanied by a brief statement of the author's evaluation of and experience with the method and by adequate bibliographic references. The extensive citing of histochemical procedures is a feature of this new edition, which preserves from the previous edition the presentation of numerous methods for staining, fixing, sectioning, injecting, or otherwise preparing tissue for microscopic examination. The result is an impressive collection of methods, each presented in the light of Lillie's personal experience.

Useful features included at the end are tables of formulas, buffers, acids, and other data helpful in preparing solutions used in the methods cited. Perhaps useful for beginners is the opening chapter, dealing with Lillie's practices in using the microscope, although this section is not altogether sound from the

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