book would provide not only a very fine introduction to these phases of chemistry but also present a coordination of much information which proves to be very interesting reading.

Of necessity the treatment of gases and of kinetic theory cannot differ too much from that given for many years. The material is carefully presented and the student who masters these chapters will be well grounded in fundamentals. The same can be said for the chapters on liquids and on solutions.

Thermodynamics is given in so many books, and in so many ways, that methods of presenting this subject often depend on personal preference, and in some instances the treatment lacks rigor. A well-written chapter on the First Law precedes a down-toearth chapter on thermochemistry, which should be very useful for those who intend to do practical work in the field. The Second Law is very well discussed, and these authors avoid the many pitfalls into which authors can so easily wander. The applications of thermodynamics to chemical problems are very well presented and cover the time-honored phases of gas equilibrium, heterogeneous and solution equilibria, electrochemical reactions, and galvanic cells, including the activity coefficients of electrolytes and the Debye-Hückel theory. Then comes a chapter on ionic conductance in solution and another on ionic reactions in solution. These are very good chapters, but the approach is not likely to be called particularly novel.

I have only one serious criticism to make of the chapters on thermodynamics. Various international bodies have spent years arguing, often bitterly, about some of the symbols and have agreed on the symbol G for H-TS, the Gibbs free energy. Nearly all of the modern texts now use this symbol, but the present book continues to use F. At the present stage this seems to be inexcusable. Science will become indeed more and more chaotic if scientists do not follow agreed-upon rules so that they can understand each other as readily as possible.

The remaining chapters of the book cover phase rule, surface chemistry, and kinetics. As in most American texts, the authors leave kinetics to the end and seem to have included it to avoid feeling guilty. The subject is treated in a classical way, which has real merits for students getting their first introduction to the subject, but let us hope that at some time before these students receive Ph.D. degrees they will be exposed to a more modern treatment.

To summarize: This well-written and very teachable book will provide students with a sound foundation in physical chemistry. It has the great advantage of teaching the subject in such a way that the students will not have to "unlearn" much of it later.

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Psychology: Conference Report

Stimulus Generalization. David J. Mostofsky, Ed. Stanford University Press, Stanford, Calif., 1965. viii + 389 pp. \$11.50.

This book constitutes the public record of the Conference on Stimulus Generalization, held at Boston University in June 1963. It contains 22 of the 25 papers presented at the Conference. Unfortunately, the papers by Margolius, Prokasy and Hall, and Razran were deleted.

All the papers were distributed prior to the meeting "in hope that it would give the participants ample time to digest the contents and enable them to devote the better part of the threeday meeting to frank discussion." A reading of the papers in their preconference form, however, gives little evidence that the "frank discussion" influenced their postconference publication in any significant way.

In order to contain the program within a reasonable scope and size, the focus, according to the editor, was restricted to the "traditional learning framework of stimulus generalization." On this criterion, verbal generalization and clinical applications were excluded. It will certainly come as a surprise to some that the recent exciting advances involving neurophysiological methods, some of which are reported here for the first time, have so rapidly become traditional, whereas the much older and still vigorous work in verbal generalization has so rapidly become atraditional. As an authoritative reference in this and other respects (for example, reversal relearning, separate subjects for each test point, the very idea of a law of generalization), this book, with a few notable exceptions, is but minimally effective in coming to terms with the uses of the past.

As a collection, the papers emphasize some important activity as well as new approaches to an old and persistent problem. In addition to presentations of empirical data and their interpretations, there are papers on definition, measurement (both S and R), experimental design, neurophysiological methods, and even a little on theory.

To the extent that this volume can be recommended as a current reference on stimulus generalization, several trends are indicated: (i) the restriction of single stimulus presentation is no longer a prerequisite, (ii) classical conditioning has largely been replaced by instrumental conditioning, (iii) operant techniques are very popular, (iv) there is an overly and perhaps dangerously heavy reliance on resistance to extinction as the index of generalization, (v) neurophysiological techniques are becoming increasingly refined and sophisticated, (vi) graduate students in particular had better know the work of Guttman and Kalish, (vii) a depressingly small number of researchers care to be influenced by theory, logical analysis, or definitional clarification, and (viii) a metric accommodation for the stimulus continuum is imminent.

Many of the chapters are well written by competent researchers with indications of promise to enrich the literature in new and ingenious ways. Meanwhile, there is enough variety here to supply Ph.D. dissertations for some time.

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Research Techniques

Methods of Animal Experimentation. vol. 1. William I. Gay, Ed. Academic Press, New York, 1965. xvi + 382 pp. Illus. \$13.50.

For some time we have needed a comprehensive text on experimental methods that involve the use of animals. This book, the first of two volumes, is an indexed collection of nine articles in which different authors describe topics concerned with the use of experimental animals—techniques