of lower mammals. Laboratory studies are called upon rather heavily to illuminate the basic physiology involved. The book has been compiled by a well-trained anthropologist, familiar with a great many existing cultures, and by one of the foremost experimentalists in sex behavior problems. The authors have been most successful in merging their different experiences into a well-integrated general treatise, to the extent that the separate disciplines merely become a part of the generalized picture, developed against a wide evolutionary background. It is authentic, full of diversified information, and masterfully presented.

Chapters deal with "The Nature of Coitus," "Types of Sexual Stimulation," "Circumstances for Coitus," "Attracting a Sex Partner," "Sexual Partnerships," "Homosexual Behavior," "Relations between Different Species," "Self-stimulation," "Development in the Individual," "Feminine Fertility Cycles," "Other Physiological Factors in Sex Behavior," with a closing chapter on "Human Sexual Behavior in Perspective." A glossary of 350 terms, including location and a short characterization of different cultures, a bibliography of some 200 references, and an index make the book understandable to the layman and a valuable reference source to the scientist.

As a characteristic treatment of the different chapters, the discussion of "Homosexual Behavior" opens with a general introduction and setting in antiquity, followed by discussion of attitudes and frequency among both men and women in the United States. The chapter continues with a treatment of attitudes existing in 76 other human cultures. Similar behavior is then traced through the subhuman primates, and examined for lower mammalian species, with a closing summary for the chapter. The biological, evolutionary, and physiological aspects of sex behavior are thus brought together in a commendable attempt to assist in a better understanding of the behavior and attitudes toward sex in human society.

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Researches in Binocular Vision. Kenneth N. Ogle. Philadelphia-London: Saunders, 1950. 345 pp. \$7.50.

In this publication, there is a readable and well-presented account of the results of many years of research by Dr. Ogle and his colleagues at the Dartmouth Eye Institute. We are fortunate to have this work, as probably no other single group has devoted so much time and effort to the understanding of these extraordinary phenomena.

The treatise is neither comprehensive nor exhaustive, as the intention was only to present the knowledge of the subject matter gained from investigations at Dartmouth. The greater part of the material is concerned with direct investigations on the perceptual process of spatial localization. Although many aspects of binocular vision are not discussed, the section dealing with

aniseikonia will be of clinical interest. The author has organized and integrated his investigations into the general body of knowledge bearing on the subject.

Broadly speaking, the contents are divided into four parts. The first part presents an introduction to the localization of the horopter and the influence on the horopter by introducing magnification into one eye. In Part II the author reports on investigations concerned with the extent of Panum's fusional area, fixation disparities, fusional amplitudes, and cyclofusional eye movements.

Part III presents some of the work for which the Dartmouth group attracted great interest. This work concerned the distortions introduced in the spatial localization of walls, floors, and ceilings when changes are made in the relative magnification of the images of the two eyes. The last part treats certain aspects of aniseikonia, from which the clinician will gain some insight into the perceptual problems.

The student of vision will find this a valuable reference.

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Mathematical Engineering Analysis. Rufus Oldenburger. New York: Macmillan, 1950. 426 pp. \$6.00.

This is a new kind of textbook with a new delimitation of subject matter for which the new expression "mathematical engineering analysis" has been chosen. In about 400 pages all branches of mechanics and certain parts of thermodynamics, electricity, and magnetism are covered. Obviously some kind of selection had to be made. The author's main idea seems to have been to give only the simplest basic formulas, which usually serve as a point of departure for the construction of mathematical theories. He also wants, however, to present results of a practical nature. Thus, in his first chapter, after a discussion of the most primitive notions of particle mechanics, he shows on page 27 a complete cutaway illustration of an automobile shock absorber which suggests that the preceding definitions and laws should be applied to it. In the same vein the book continues to offer simple formulas such as that heat flux is proportional to a temperature difference or to a temperature gradient. The reader is then encouraged to apply a theorem for heat transfer to complicated devices like gas turbine blades. Nowhere in the book is a theoretical setup carried through to such an extent that a student would learn how more than the most immediate consequences could be drawn from the basic laws by the use of methods that are usually called "mathematical analysis."

As every teacher knows, the difficulty of formulating laws and theorems in a clear, concise, and correct way, so that a beginner can successfully handle them, is enormous. The author is not always lucky in choosing his formulations; what, for instance, "Laws 1.4 and 1.5" on page 10 mean is hardly clear. In the chapter on aerodynamics one single theorem (14.1) is