ly thorough and well-planned study of what the first 10 years of postbomb pregnancies could show about genetic effects. The result of that study was that, although everyone agrees that radiations cause mutations, it was not possible to demonstrate any effect on the offspring of survivors of the unfortunate "experience."

Schull and Neel have had the perspicacity to realize that the immense effort put into the Hiroshima and Nagasaki studies could be put to uses other than the original attempt to assess radiation damage. In this second book to come out of their work with the Casualty Commission, they have attempted to deal with the effect of consanguineous marriages on human populations. Having collected a uniquely complete and large set of data on marriage patterns, schooling, measurements of physical and psychological traits, and mortality and morbidity statistics, they have analyzed the data with great care and intelligence. Again they have come up with an encouragingly negative report. At the levels of inbreeding now occurring in the world's populations, or likely ever to occur, the deleterious effects are quite small, though detectable. Whatever is wrong with mankind, it cannot be pinned on first cousins.

There is a great danger in the field of human population genetics of being led to lurid or extreme conclusions by the very import of the questions. Schull and Neel have avoided this trap with great skill. Moreover, in their last chapter, they have embarked on an enterprise of great danger. This last section is a general review and discussion of the hottest issue in population genetics today: What does inbreeding data tell us about the genetical structure of populations and about the kind and intensity of natural selection presently operating in populations? Although they are unable to resist some polemical forays (the temptation to do battle in this field is too great even for very well-adjusted gentlemen), they succeed in giving a well-balanced view of the messy and contradictory evidence and theory on this question.

This book, and especially its last chapter, can be taken as a cautionary tale. Two highly competent and conscientious scientists, working with a team of highly trained colleagues for more than 15 years, using the most sophisticated statistical techniques in a highly sophisticated field, with a very large set of human population and in-

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dividual data, have asked a number of basic questions about the genetical structure of human populations. And the answers are—ambiguous. Can it be that the statistical methodologies of population genetics are inadequate for the problems of measuring heterozygosity and estimating the intensities and kinds of natural selection? *Ça vous donne à penser*.

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Prehistory of the Old World

Atlas de Préhistoire. vol. 1. Henriette Alimen. Boubée, Paris, 1965. 185 pp. Illus. Paper, F. 31.50.

Volume 1 of the Atlas de Préhistoire, by Henriette Alimen, is a slightly revised, new edition of the book that was published in 1950. It is an indispensable textbook for the student of prehistory in that it is a sound and particularly well-illustrated manual on the French Paleolithic, Mesolithic, and Neolithic. It has been extended only briefly to the prehistory of the rest of Europe. This new edition has all of the virtues of the first and has been made even more attractive by increasing the size of the pages and using glossy paper.

The new edition follows the same plan as its predecessor. The first part begins with a concise discussion of the various types of archeological sites, including, notably, a clear description of the geomorphological aspects of the Paleolithic open-air and cave sites. This is followed by a short presentation of the rudiments of archeological field and laboratory work, including the auxiliary sciences of archeology, notably petrography. The last chapter (of the first part) is a succinct review of the various methods of dating used in archeology.

The second part of the book begins with a short discussion of prehistoric stone working techniques and is, essentially, a useful summary of the French Paleolithic. This part is particularly well illustrated and provides the student with the basic rudiments of an introductory course. The chapters on the Mousterian and Aurignacian have been revised to take into account the work by Bordes and Peyrony.

The book ends with a short discussion of the subsistence techniques of prehistoric man, his burial customs, and the art of the Upper Paleolithic.

The large format and attractive presentation of the material in this second edition have made it an extremely pleasing book. Its outstanding qualities are the extremely logical presentation of the material, the balanced and detailed presentation of the French Paleolithic, the inclusion of the historical development of archeological research in France, and the unusually large number of illustrations, including some color plates. On the other hand, most of the recent developments have only been entered in terse paragraphs, appended at the end of the various chapters. Most of the text and captions have not been revised. This leads to some confusion and tends to de-emphasize current research. Unfortunately for the student, the names of many scholars who are mentioned in the text are not included in the bibliography, which has been restricted to 57 titles.

It is very regrettable that a comprehensive, detailed, and up-to-date text on Paleolithic archeology has yet to appear in English. Henriette Alimen's *Atlas de Préhistoire* (vol. 1) stresses the French Paleolithic in the traditional manner, but it needs to be complemented with Denise de Sonneville-Bordes's *L'Age de la Pierre* (1961) and Kenneth P. Oakley's *Man the Tool-Maker* (ed. 5, 1961). These two short texts will provide the student with additional material emphasizing more recent research and covering the rest of the Old World.

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Perspective on Genetics

The Evolution of Genetics. Arnold W. Ravin. Academic Press, New York, 1965. x + 216 pp. Illus. Paper, \$2.95; cloth, \$6.

One begins to scan this paperback and soon finds himself engrossed with the text despite a familarity with the contents. The author's intent is to unfold for the nongeneticist the development of the central concepts of the exploding field of genetics. As stated by Ravin, the book is written for a "broad audience . . . undergraduates considering a career of teaching and research in biology, students who are embarking on graduate studies in biology, profes-