This is a book of high quality, scholarly and accurate. Few plant anatomists today could have prepared a volume of this general excellence, and Katherine Esau has earned the gratitude of her fellow teachers for providing them with an outstanding text in a field so basic and so necessary to other disciplines.

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Beaches and Coasts. Cuchlaine A. M. King. Arnold, London; St Martin's Press, New York, 1959. xii + 403 pp. Illus. \$14.50.

The intersection at the shoreline of land, sea, and air brings into dynamic interplay a wide variety of physical, chemical, and biological factors which produce an environment of remarkable diversity and great stress. Its characteristics as a joint boundary zone between the three major realms of the earth have given the shoreline an importance in terrestrial evolution and human affairs far out of proportion to its insignificant areal extent and have stirred the minds, the emotions, and the pens of men as few natural phenomena have.

It is principally in the last few decades, however, that interest has been focused on the mathematical description and experimental replication of the purely physical processes that shape and move the materials of which the shore is made. Beaches and Coasts is a valiant attempt to summarize this work, integrate it with field observations, and produce a modern synthesis of coastal processes and evolution. More than a third of the book is concerned with waves and wave action, but chapters are also devoted to the main variables affecting the beach, methods of study, wind, the movement of material, beach gradient and profiles, and the classification and development of coastal types. Documentation is drawn mainly from recent British and American publications, and from the North Sea and Channel coasts.

In view of the large volume of useful information which the author has assembled and condensed, it seems a pity that she did not take the additional steps necessary to achieve the logical cohesiveness and critical balance one has come to expect of British scientific books. The individual chap-

ters in Beaches and Coasts are essentially independent essay reviews, each interesting and useful in its own right, but with very little interconnection. The disjointed effect is increased by a haphazard sequence of chapters, each having an independent list of references. Some subjects are repeatedly reintroduced (for example, the 1953 North Sea storm surge), while others that one might expect to find examined in such a book are left out or are only superficially treated (for example, biological processes, climatic variation, applications).

Taken separately, however, these chapters provide a useful introduction to the subjects considered. With few exceptions (for example, amphidromic systems), theoretical concepts and experimental data seem to be accurately grasped and are understandably presented. Much interesting observational information is also summarized, especially with regard to wave evolution, depth of wave action, and movement of sediments. The importance of onshore movement of sediments and coastal accretion is stressed and is backed up with some surprising statistics—the British Isles are reported to be gaining area from coastal accretion six times as fast as they are losing it by coastal erosion.

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The Face of the Ancient Orient. A panorama of Near Eastern civilizations in pre-classical times. Sabatino Moscati. Quadrangle Books, Chicago, Ill., 1960 (published in Italy as Il Profilo Dell'Oriente Mediterraneo). xvi + 328 pp. Plates.

For well over a century now, archeologists have been excavating ancient cities and towns, temples and palaces, houses and tombs, all over the Near East from Egypt to India and from the Caspian Sea to the Persian Gulf. They have uncovered innumerable artifacts and art objects made of stone, metal, and wood, as well as myriad inscriptions on clay, stone, papyrus, and metal. This enormous treasure of archeological and epigraphic material has been made available primarily in the form of specialized and technical monographs, reports, and articles which have accumulated over the decades to ominous proportions. Only rarely have more general studies and evaluations of this conglomerate mass of archeological sources been attempted, and these usually have taken the form of political and cultural histories of one or another of the rediscovered and resurrected peoples of the Ancient Near East. More recently, however, a number of scholars and humanists, taking their cue from the physical sciences and their current high prestige, have begun thinking and writing of "organic wholes" and universal laws in history and culture, even utilizing at times the language and terminology of the physical sciences. The book under review reflects this recent, and in some ways not unpromising, approach as it is being applied to the history and culture of the Ancient Orient.

The physical science that seems to have a special attraction for Moscati is chemistry, and so we find the book divided into sections labeled "The components," "The catalysts," and "The synthesis." The reader should not be discouraged or misled by this rather superficial chemical "facade"; actually Moscati organizes the relevant historical, literary, and cultural data with considerable skill, and presents it in "orthodox" scholarly language with all its virtues and defects. After an introductory chapter outlining the area and the time to be covered, the book proceeds to delineate briefly and eclectically the history, religion, literature, and art of all the more important peoples of the Ancient Orient: Sumerians, Babylonians and Assyrians, Egyptians, Hittites and Hurrians, Canaanites and Aramaeans, Israel, and Persians. The closing chapter, to be sure, introduces once again scraps of "scientific" terminology, such as isoid, reagents, component elements, catalyst, and compound. But the title of the chapter, "The face of the Ancient Orient" sounds more like alchemy than chemistry, and the conclusions it presents are no more precise, accurate, or valid than those found in historical works that "stick" to the customary humanistic diction with its "built-in" vagaries and shortcomings.

Psychologically speaking, there are two contrasting types of scholars: the specialist who digs an inch wide and a mile deep, and the generalizer who digs a mile wide and an inch deep; both are indispensable to creative scholarship, and the two are equally pleasing in the eyes of Jahweh. Moscati combines to some extent the virtues of both types, but his heart, head, and hand are with