TABLE OF CONTENTS.

PART I.

ACALEPHS IN GENERAL.

CHAPTER I.

HISTORY OF OUR KNOWLEDGE OF THE ACALEPHS.

SECTION 1. Period of Aristotle and the Roman naturalists. — We find unquestionable evidence in Aristotle's History of Animals that he knew the Radiates now called Acalephs by systematic writers, though this name was applied by the ancient Greeks to the Actinize as well as to the Acalephze of zoologists. Pliny added nothing to the information of his predecessors, except a few remarks on the movements of the Medusze. p. 3-7.

SECTION 2. The naturalists of the sixteenth and scenteenth centuries. — Rondelet is the chief investigator of this period; his observations on Medusæ disclose the same accuracy of observation and the same penetration as his other investigations on all the natural productions of the Mediterranean. Gessner deserves to be studied chiefly on account of his great erudition, and Rondelet for his deep insight into the relations of animals. p. 7-12.

- SECTION 3. The naturalists of the eighteenth century. Linnaeus gives character and importance to the study of Natural History, by the publication of the "Systema Natura." His pupils and followers explore the world in every direction. p. 13-18.
- SECTION 4. The systematic writers and anatomists. In the beginning of the ninetcenth century the Acalephs begin to be made the subject of special investigations. Péron and LeSueur, and, twenty-five years later, Eschscholtz, mark two great epochs in this progress. p. 18-27.
- SECTION 5. Embryological researches upon Acalephs. The investigations which have led to the knowledge of the modes of reproduction and growth of the Acalephs are among the most interesting ever made by naturalists. Sars and Steenstrupp are most prominent among the discoverers in this field, and, next to them. Siebold, Dalyell, and Dujardin. p. 28-35.

CHAPTER II.

ACALEPHS AS A CLASS.

SECTION 1. Mode of determining the natural limits of the class.— The study of the structure of animals, unless combined with a knowledge of their mode of develop-

ment and of their homologies, is not sufficient to trace the natural limits of the classes. p. 36-10.

combined with a knowledge of their mode of develop- | SECTION 2. The different animals referred to the type

VOL. III.

IJ