similar patterns of variation, and can be divided into distinct subgroups of amino acid sequences. These findings have had important consequences in considering the possible origins of diversity in antibody molecules and have also aided in understanding the function and evolution of these molecules.

Many of the descriptions of experimental results are unnecessarily detailed, and this often detracts from the main thought. Although some clarity is provided by subtitles throughout the chapters and by summarizing sentences, in many cases these are not sufficient or come too late.

The major value of this book is in its compilation of the results of studies of the structure and biosynthesis of antibodies prior to the most recent surge of activity in the field. The translation into English is good, resulting in an easily read text. The account is well documented and does present a description of the problems and ideas that had emerged prior to 1968.

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Early Carbonate Petrology

Carbonate Rocks. Limestones and Dolomites. LUCIEN CAYEUX. Translated from the French edition (Paris, 1935) and updated by Albert V. Carozzi. Hafner, Darien, Conn., 1970. xviii, 506 pp., illus. $37.50. Sedimentary Rocks of France.

This book, published originally in 1935, is one of the classics in sedimentary geology. Its author was one of the early pioneers in the field now generally labeled "carbonate petrology." This book is his legacy in that field.

The book shows the wealth of data that were already in existence about 20 years before this subject became recognized as an important field of activity in sedimentary geology. Cayeux was one of that rare band of scientists who have been well ahead of their times. He made his mark as a researcher and teacher many years before his subject blossomed out. Yet the impact of his research and teaching activity, of which this book is one of the most solid documents, was practically lost when carbonate petrology became an established branch of sedimentary geology. Researchers in this field started from scratch without appreciating the heritage of the past. In part this lack of continuity was due to the language barrier and in part to the unavailability of Cayeux's book.

Cayeux's book is organized in two parts, treating limestones and dolomites respectively. The limestones are considered under two separate headings, marine limestones and freshwater limestones. The marine limestones are further subdivided in terms of composition, textures, and structures. Descriptions follow of Recent carbonate sediments and ancient limestones. The treatment of dolomites, with many examples, is both descriptive and genetic. Most cited examples in this book are from France. Excellent photomicrographs illustrate the many fabrics this book discusses.

Hindsight reveals Cayeux as not only an astute and skilled observer but a giant in his field. The compilation of data in this book, especially the many interesting examples, can still serve a useful purpose today. Yet this book brings into sharp focus that it takes more than one man to develop a subject. Moreover it takes money. The sophisticated modeling of depositional environments and diagenetic patterns and sequences now almost taken for granted was the result of a massive infusion of funds by the world's major petroleum corporations. I wish Cayeux could have participated in that exciting period during the late 1950's and early 1960's.

Carozzi's translation comes out well and shows both author and translator as skilled writers. Carozzi attempts to update Cayeux's book by inserting in the text various remarks and references to show where the subject stands today. Although these comments are a useful adjunct to the book, they cannot really "update" Cayeux. The subject has developed in a different direction.

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