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Autore	James Noel P
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controls; Benthic marine factories; Pelagic marine factories; Limestone classification schemes
Further reading CHAPTER 5 THE CARBONATE FACTORY: MICROBES AND ALGAE; Introduction; Microbes and carbonates; Microbialites; Modern stromatolites; Calcimicrobes; Calcareous algae; Further reading; CHAPTER 6 THE CARBONATE FACTORY: SINGLE CELLS AND SHELLS; Introduction; Single-cell microfossils; Macrofossils; Further reading; CHAPTER 7 THE CARBONATE FACTORY: ECHINODERMS AND COLONIAL INVERTEBRATES; Introduction; Echinoderms; Sponges; Bryozoans; Corals; Further reading; PART II CARBONATE DEPOSITIONAL SYSTEMS: AN OVERVIEW; Introduction; Terrestrial systems; Strandline systems; Marine systems
Further reading CHAPTER 8 LACUSTRINE CARBONATES; Introduction; Modern lakes: Zonation and classification; Controls on lake sedimentation; Lake sedimentation; Lacustrine microbialites; Classification of ancient lake deposits; Further reading; CHAPTER 9 CARBONATE SPRINGS; Introduction; Spring systems; Classification of springs; Tufa, travertine, or sinter?; Biota of spring systems; Carbonate precipitation in spring systems; Spring architecture; Calcareous spring carbonate facies; Further reading; CHAPTER 10 WARM-WATER NERITIC CARBONATE DEPOSITIONAL SYSTEMS; Introduction; The carbonate factory
Depositional systems Further reading; CHAPTER 11 THE COOL-WATER NERITIC REALM; Introduction; The Carbonate Factory; Depositional settings; Warm-temperate carbonates; Cool-temperate carbonates; Cold-water, polar carbonate systems; The rock record; Further reading; CHAPTER 12 MUDDY PERITIDAL CARBONATES; Introduction; Andros Island: The Bahamas; Shark Bay: Western Australia; The United Arab Emirates: Persian Gulf; Stratigraphy; The shallowing-upward peritidal cycle; How do numerous peritidal cycles form?; Temporal variations on the peritidal cycle theme; Further reading
CHAPTER 13 NERITIC CARBONATE TIDAL SAND BODIES

Sommario/riassunto

This textbook provides an overview of the origin and preservation of carbonate sedimentary rocks. The focus is on limestones and dolostones and the sediments from which they are derived. The approach is general and universal and draws heavily on fundamental discoveries, arresting interpretations, and keystone syntheses that have been developed over the last five decades. The book is designed as a teaching tool for upper level undergraduate classes, a fundamental reference for graduate and research students, and a scholarly source of information for practicing professionals whose expertise lies