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Altri autori (Persone)	BromleyR. G (Richard Granville)
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Centers of Ichnological Research; 10.3. Modern Trends in Ichnology as a Legacy from the Past; 10.4. Disciplinary and Interdisciplinary Aspects in Ichnology; 10.5. Ichnology as a Historical Product; Acknowledgments; References; Chapter 2: Ichnotaxonomy: Finding Patterns in a Welter of Information; 1. Introduction; 2. Observing Trace Fossils; 3. Describing Trace Fossils; 4. Stratigraphic Classifications; 4.1. Substrate Consistency; 4.2. Toponomic Classification; 5. Biological Classifications; 5.1. Phylogenetic Classification; 5.2. Ecological Classifications; 6. Ethological Classification; 6.1. Resting Traces (Cubichnia); 6.2. Dwelling Traces (Domichnia); 6.3. Locomotion Traces (Repichnia); 6.4. Grazing Traces (Pascichnia); 6.5. Feeding Traces (Fodinichnia); 6.6. Farming Traces (Agrichnia); 6.7. Escape Traces (Fugichnia); 6.8. Brooding Traces (Calichnia); 6.9. Other Ethological Categories; 6.10. Overlapping Functions; 7. Systematic Classification; 7.1. International Code of Zoological Nomenclature; 7.2. A Brief History of Ichnotaxonomy; 7.3. The Mechanics of Naming New Ichnospecies and Ichnogenera; 7.4. Diagnosis and Description; 7.5. Ichnofamilies and higher Ichnotaxa; 7.6. Ichnosubspecies and other Subdivisions; 7.7. Exceptional Cases; 7.8. Beyond Systematics; 8. Conclusions; Acknowledgments; References; Chapter 3: Trace-Fossil Systematics; 1. Introduction; 2. Need of a Robust Ichnotaxonomy and Trace-Fossil Classification; 3. A Newly Proposed Nomenclature Key; 3.1. Purpose and Advantages; 3.2. Structure of the Key and Challenges; 3.3. Data Analysis; 4. Way Forward; 5. Conclusions; Acknowledgments; References; Chapter 4: The Ichnofacies Paradigm; 1. Introduction; 1.1. Rise of the Ichnofacies Concept

Sommario/riassunto

Integration of ichnological information into sedimentological models, and vice versa, is one of the main means by which we can improve our understanding of ancient depositional environments. Mainly intended for sedimentologists, this book aims to make ichnological methods as part of facies interpretation more popular, providing an analytical review of the ichnology of all major depositional environments and the use of ichnology in biostratigraphic and sequence stratigraphic analysis. It starts with an introduction to the historical aspect of ichnology, introducing common concepts an

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Autore	Galiffa Daniel Joseph
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Nota di contenuto	1. The Sheffer A-Type 0 Orthogonal Polynomial Sequences and Related Results -- 2. Some Applications of the Sheffer A-Type 0 Orthogonal Polynomial Sequences -- 3. A Method for Analyzing a Special Case of the Sheffer B-Type 1 Polynomial Sequences.
Sommario/riassunto	On the Higher-Order Sheffer Orthogonal Polynomial Sequences sheds light on the existence/non-existence of B-Type 1 orthogonal polynomials. This book presents a template for analyzing potential orthogonal polynomial sequences including additional higher-order Sheffer classes. This text not only shows that there are no OPS for the special case the B-Type 1 class, but that there are no orthogonal polynomial sequences for the general B-Type 1 class as well. Moreover, it is quite provocative how the seemingly subtle transition from the B-Type 0 class to the B-Type 1 class leads to a drastically more difficult characterization problem. Despite this issue, a procedure is established that yields a definite answer to our current characterization problem, which can also be extended to various other characterization problems as well. Accessible to undergraduate students in the mathematical sciences and related fields, This book functions as an important reference work regarding the Sheffer sequences. The author takes advantage of Mathematica 7 to display unique detailed code and increase the reader's understanding of the implementation of

Mathematica 7 and facilitate further experimentation. In addition, this book provides an excellent example of how packages like Mathematica 7 can be used to derive rigorous mathematical results.
