



## METADATA

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### Abstract

The book is primarily intended for undergraduate and graduate students in the geology departments of Greek universities, where it can be used as a primary textbook. It can also be used by biology students and researchers, foreign university students, geologists, and non-specialist scientists. The originality of the book lies in the fact that, alongside the theoretical analysis of the subject, it provides a step-by-step guide to the process of micropaleontological research, from the collection of samples to their laboratory processing and the process of identifying microfossils. Without detailed systematic descriptions, it provides numerous original images and microscope photographs (from the authors' personal research) to introduce readers to the study of micropaleontology in an enjoyable, scientific, and appealing way. It begins by introducing readers to the science of micropaleontology,

the study of the amazing microcosm of stone, with the enviable architecture of their shells, which are highly adaptable to their living environments, and the information they provide about the evolution of the Earth's environment and life on the planet. After a brief history of the development of micropaleontology as a science and its current research objectives, the main groups of micropaleontological fossils are examined. The selection was made based on their usefulness in modern research. For each group, the modern organism (description, living environment, feeding and living habits, reproduction) and the fossilized organism (criteria and methodology for identification and systematic classification) are examined. Finally, the applications of micropaleontology in research and the needs of modern society are presented, and an extensive bibliography is provided.

