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Abstract

This textbook is intended for undergraduate and graduate students who are enrolled in the compulsory course of Geological Mapping and participate in the compulsory Field Exercises, which are an integral part of most compulsory basic courses, as well as their specializations (Introduction to Geology, Tectonics, Stratigraphy, Petrology, Engineering Geology, Hydrogeology, Geomorphology, etc.). It is also aimed at freelancers and those working in technical companies or the wider public sector, given that for all applied studies (geological suitability studies, environmental studies, geotechnical and hydrogeological studies, etc.), geological mapping is a prerequisite for the study, as specified in all Government Gazette publications setting out the specifications for such studies. The book covers everything related to fieldwork and geological mapping, from the necessary equipment, safety regulations, and work organization (objectives, tactics) to the writing of geological reports and studies. It describes and analyzes in detail the methods of mapping, the synthesis of data and the construction of a geological map (or other categories of geological maps), sampling techniques, instrumental measurements and the recording of numerical data, as well as all modern technologies that make up electronic cartography. The textbook is self-contained and comprehensive, covering the needs of undergraduate and graduate students throughout their studies, as well as the needs of all active geologists, given that fieldwork and geological mapping are the cornerstone of all specializations in the science of geology.

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