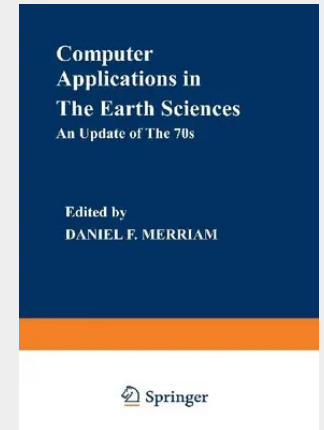


Computer Applications in the Earth Sciences

An Update of the 70s

In looking back at the 1970's, the decade may prove to be a crucial one in the development of quantitative geology. After quantification had lain fallow and essentially undeveloped for 120 years, introduction of the computer in the 1950's revived interest and fostered advances in the subject. Developments continued through the 1960's at a rapid pace and the state-of-the-art was reported on in the proceedings of an international symposium held at the University of Kansas in June 1969 (Merriam, 1969). The proceedings of the Kansas meeting, published as the first contribution in this series on "Computer Applications in the Earth Sciences" was one of 8 colloquia sponsored by the Kansas Geological Survey and the International Association for Mathematical Geology in the late 1960's. In a sense those international symposia were continued in the 1970's at Syracuse University as a series of Geochautauquas sponsored by the Department of Geology at Syracuse University and the International Association for Mathematical Geology. These proceedings report the results of the 8th Geochautauqua held in Syracuse on 26-27 October 1979.

Systems Behavior and Geoscience Problem-Solving.- Developments at the Man-Machine Interface.- Computers as an Aid in Mineral-Resource Evaluation.- Quantitative Biostratigraphy, 1830-1980.- Computers in Geological Photointerpretation.- Looking Harder and Finding Less - Use of the Computer in Petroleum Exploration.- Use of Computers in Seismic Reflection Prospecting.- Regional Mineral and Fuel Resource Forecasting - a Major Challenge and Opportunity for Mathematical Geologists.- Computers in Oceanography (abstract).- Computer Applications in Exploration and Mining Geology: Ten Years of Progress.- Some Developments in Computer Applications in Petrology.- Stratigraphic Analysis: Decades of Revolution (1970-1979) and Refinement (1980-1989).- Computer Methods for Geochemical and Petrologic Mixing Problems.- Computer as a Research Tool in Paleontology.- The Computer in Paleoecology.- The Future of Information Systems in the Earth Sciences.- Trends in Computer Applications in Structural Geology: 1969-1979.- A Forecast for Use of Computers by Geologists in the Coming Decade of the 80s.



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