Record Nr. UNINA9910450871603321 Computers in geology [[electronic resource]]: 25 years of progress // **Titolo** edited by John C. Davis, Ute Christina Herzfeld Pubbl/distr/stampa New York,: Oxford University Press, 1993 **ISBN** 0-19-756052-0 1-280-52713-7 9786610527137 0-19-535889-9 1-4294-0787-5 Descrizione fisica 1 online resource (317 p.) Collana International Association for Mathematical Geology studies in mathematical geology;;5 Altri autori (Persone) DavisJohn C HerzfeldUte Christina Disciplina 550.285 550/.285 551.0285 Soggetti Geology - Data processing Geology - Mathematics - Data processing Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Previously issued in print: 1993. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Contents: 1. Introduction: 2. Weights of Evidence Modeling and Weighted Logistic Regression for Mineral Potential Mapping: 3. Gold Prospecting with Factorial Cokriging in the Limousin, France; 4. Recent Experiences with Prospector II; 5. Correspondence Analysis in Heavy Mineral Interpretation; 6. Mathematics Between Source and Trap: Uncertainty in Hydrocarbon Migration Modeling; 7. Risk Analysis of Petroleum Prospects; 8. Characteristic Analysis as an Oil Exploration Tool: 9. Information Management and Mapping System for Subsurface Stratigraphic Analysis

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Sommario/riassunto

This volume vividly demonstrates the importance and increasing breadth of quantitative methods in the earth sciences. With contributions from an international cast of leading practitioners, chapters cover a wide range of state-of-the-art methods and applications, including computer modeling and mapping techniques. Many chapters also contain reviews and extensive bibliographies which serve to make this an invaluable introduction to the entire field. In addition to its detailed presentations, the book includes chapters on the history of geomathematics and on R.G.V. Eigen, the "father" of mathematical geology. Written to commemorate the 25th anniversary of the International Association for Mathematical Geology, the book will be sought after by both practitioners and researchers in all branches of geology.