

## **Computers and Geosciences, Vol.1, No. 1/2, 1975**

P. J. Lee

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Written at a senior level in statistics, *Random Processes in Geology* consists of a cross-section of the random processes in use today. Geologists who already have a basic knowledge of random processes will find interesting applications in this book.

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Edited by D. R. Merriam  
*Pergamon Press Ltd. Quarterly Journal, multiple-reader institution.*  
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This journal is to be published under the auspices of the International Association for Mathematical Geology. Papers are concerned with all aspects of computer applications (rather than computers), ranging from data management systems to problem-solving numerical techniques. In addition to formal articles, computer programs, short notes and book reviews of pertinent publications are also included. Contents of the journal should be beneficial to all earth scientists working with quantitative subjects.

The first issue of the journal has the following articles:

P1P1 and P1P2: FORTRAN IV programs to aid in the determination of important parameters in a classification scheme, by T. A. Jones and R. A. Baker.

An algorithm and FORTRAN IV programs for processing analytical emission-spectrography data, by Y. Frenkel, D. Gill and I. B. Brenner.

A monotone-sequences algorithm and FORTRAN IV program for calculation of equilibrium distribution of chemical species, L. J. Walters Jr. and T. J. Wolery.

Classification of glacial tills by computer using the CLUS program, B. S. Siegal and J. C. Griffiths.

FORTRAN IV program to compute Pearson's frequency curves by E. J. Schuegraf and E. L. Zodrow.

HYDROCHEM - a FORTRAN IV program for processing analytical hydrochemical data, by D. Gill and E. Rosenthal.

FOLKSS: a FORTRAN program for petrographic classification of sandstones, by A. F. Jacob.

Cyclic fluctuation of waterlevels in Lake Ontario, by B. P. Cohn and J. E. Robinson.

A computer simulation and study of grain shape, D. F. Watson and F. G. Smith.

Prediction of wildcat well farmout success by use of the central limit theorem, by Z. C. Dahlberg.

The journal could be very meaningful to its readers if a card deck or a tape copy of each computer program published were available upon request. Test data and its output should also be provided.

The aim of *Computers and Geosciences* is to serve as a medium for stimulating as well as exchanging ideas among earth scientists from universities, research centres, and industry. It is similar in nature to its parent journal, but with more emphasis on computer programs. Geoscientists will find the journal of substantial value.

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## Books Received

### Exploration Geochemistry

**Bibliography**, period Jan. 1972 to Dec. 1975, compiled by H. E. Hawkes. Spec. Vol. No. 5, Assoc. of Exploration Geochemists, 195 p., 1976. \$10, soft cover. With classified index; available from the Secretary, AEG.

**Global Geology** by M. A. Khan. London, Wykeham Publ. Ltd. (Wykeham Science Series) 165 p., 1976. \$8.60, soft cover (available from Springer-Verlag, N. Y.). Written at freshman level, the content is largely geophysical: "this is because geology today is based largely on the observations by geophysicists during the last twenty five years" (Preface). The author is, of course, a geophysicist (at the University of Leicester, England).