

NOTISER

Notes

Computer program for calculation of norms of igneous and metamorphic rocks

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The need for computer programs in petrographical and geochemical use is very great and is steadily increasing. A general program, written in FORTRAN II D, for norm calculations has been completed and is now available from the Mineralogisk-Geologisk Museum. The program has been designed for the IBM 1620 II computer of the University of Oslo.

The computer is fed with punch cards containing information of rock analyses expressed in weight per cent of the usual oxides. It recalculates the analyses to cation percentage and calculates the CIPW cation norm and/or the BARTH mesonorm.

The following additional operations can be made:

1. Simplified recalculation of the cation percentage values for standard-cell calculations (oxygen = 160).
2. Calculation of selected data for the most common three- and four-component diagrams.
3. Punching of cation percentage values on punch cards, one for each analysis, in case further statistical or trend-surface analysis is needed.
4. During the calculation the computer will write the details of the various calculations.

Those interested may write for a program to Mineralogisk-Geologisk Museum, Sars gate 1, Oslo 5, Norway.