Vavilina Daria

Problem:

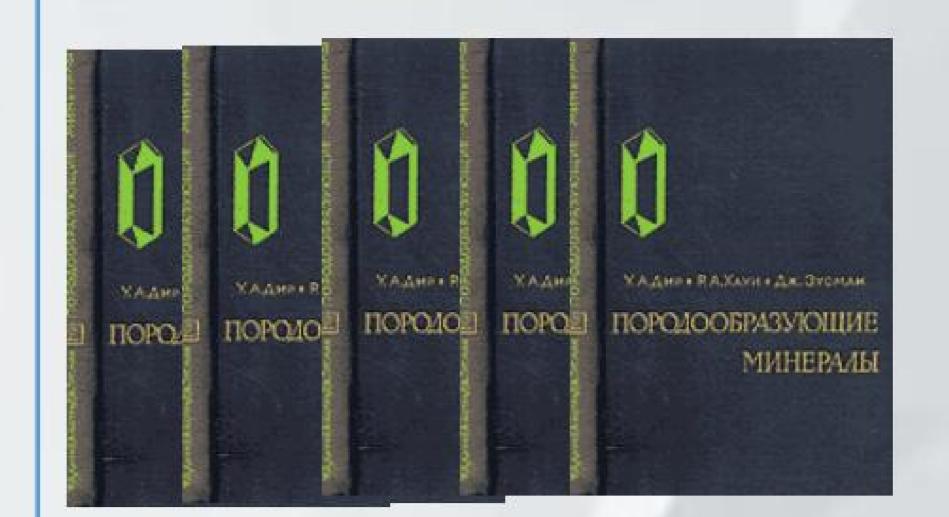
Today in Russia there are no special software products for determining minerals by chemical composition,

foreign analogues with software products are sold together with analyzers and work only with instrument databases.

Purpose: To create a database of minerals for researchers, mineralogists, petrographers.

Tasks:

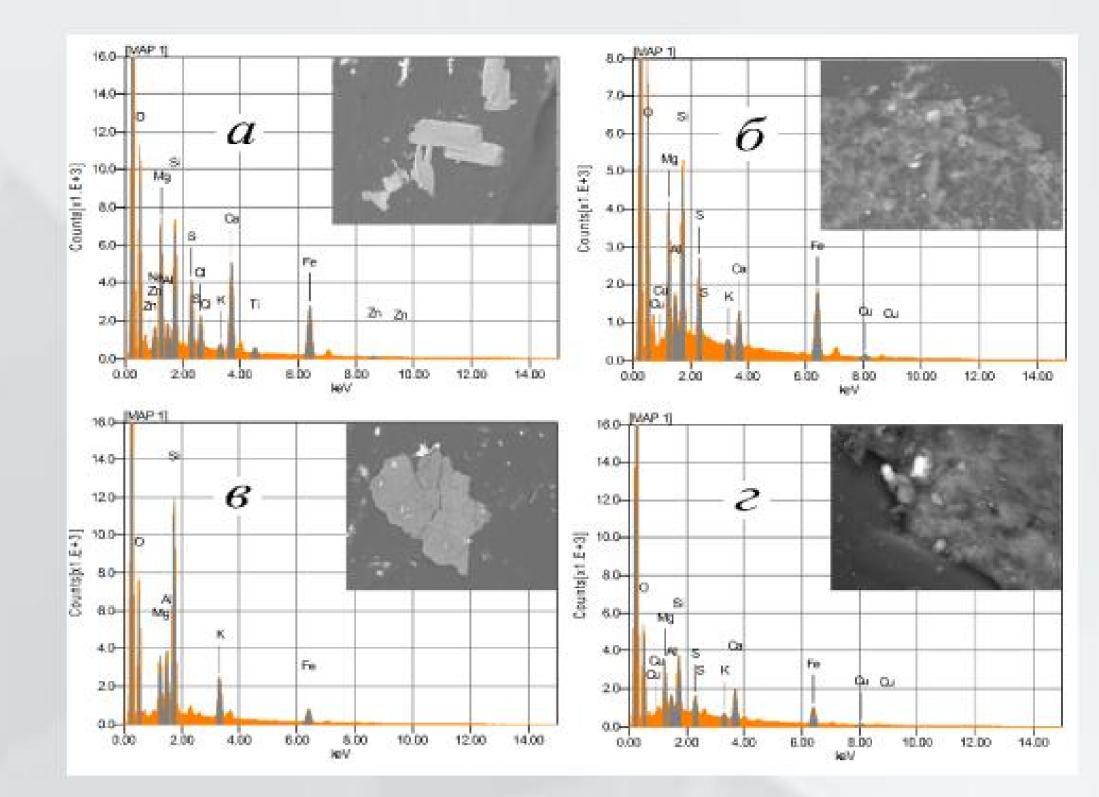
1. Analysis and collection of data on books and collections. 2. Formation of a database of minerals. 3. Creation of software.



5 volumes of textbooks on rock-forming minerals

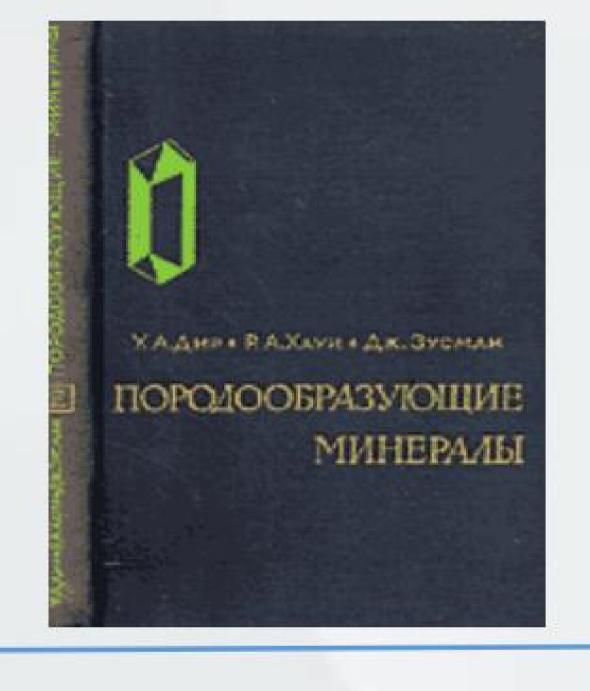
W. A. Dear, R. A. Howey, J. Zusman ROCK-FORMING MINERALS. Volume 1-5

Data collection



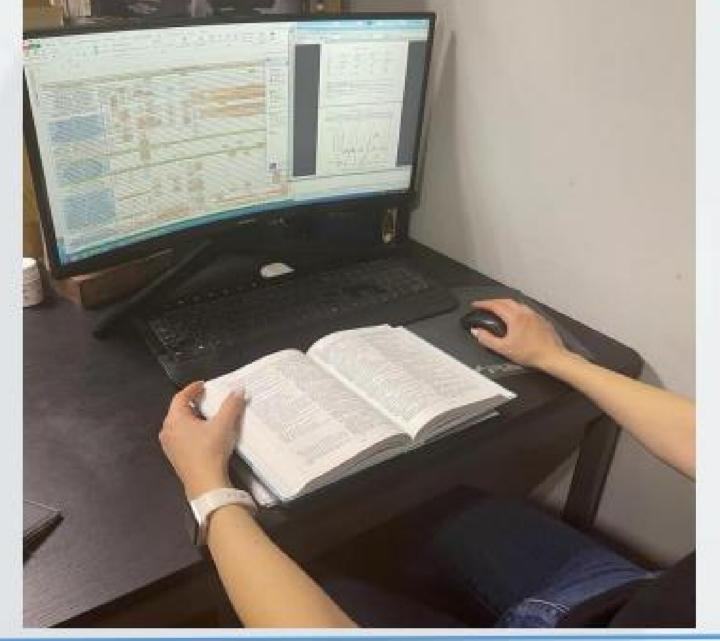


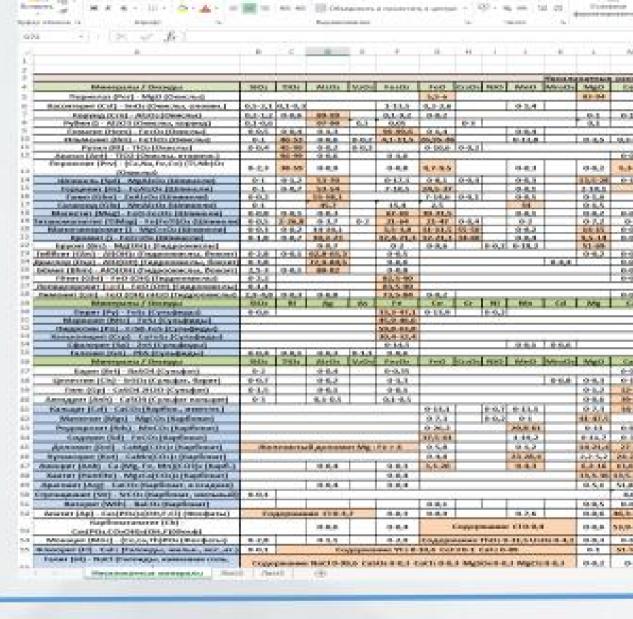
Reports
mineralogists
ALROSA



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Stages of work





Database of minerals where you can search for 2-3 chemical elements. In addition, it will be possible to obtain basic information and properties on minerals in one place.

SIO: TIO: AliO: V:O: Fe2O: Fe0 Cr2O: NIO MHO MniO: MgO CaO Nai:O KiO P2O: ZHO 8aO CuO SrO SHO: P60 SO: CO: F H2O+ H2O- Cymma 5,5-4 93-94 Периклаз (Per) - MgO (Окислы 1-13,5 0,2-2,6 82-98 0-0,25 Касситерит (Cst) - SnOz (Окислы, оловян.) 9.1 0-1,2 0.2-1.2 0-0.6 89-99 0.1 0.05 0-3 99-100 Rogereg (Crn) - Alt On (Oronona) 99-100 97,2-100 0-3.5 0,3-0,8 0-0,7 99-100 0-13,8 0-0,5 99-100 0-0,4 45-99 0-0,2 0-0,3 0-10,6 0-0,2 0-2,7 Потери при прокаливании 0,3-0,8 0-0,2 99-100 0-0.2 5,3-41 0-8,1 0-0.5 99-100 0-0,1 Содержание (Се2, La2, Y2) + О3 = 0-16,4 0-0,6 0-0,2 0-0,3 13,5-28 0-1,7 Хромистая шлинель (Fe-21 Cr-23 Al-42, 1), Цинковая шлинель (Fe-11 Cr-0, Zn-16,5) Хромистый герцинит (Fe-28 Cr-39 Al-27) 0-0,1 2-10,1 99-100 0-1,6 0-0.5 0-1.5 99-100 0-0,2 0-0,1 Если Si 1,55 Mg 1,85 - Магиезномагнетит 99-100 0-0.8 0-0.1 0-0.3 67-69 30-31,5 99-100 0-0.5 2-26.8 0-3.7 0-2 21-64 21-47 0-0.4 99-100 99-100 26-31 0-0,5 99-100 68-74 0-0,7 0-2 0-9,6 0-0,2 0-18,2 0-0.2 0-0,1 31-34,5 0-3 99-100 64-69 0-3,8 0-4,4 0-0,1 14,5-15 99-100 84-85,5 0-0,3 99-100 83-85 0-0,4 10,5-12 99-100 87-89,5 83,5-90 0.0,9 12,5-14,2 99-100 84,8-87,5 99-100 45,9-46,6 58-53,4 99-100 59,8-63,8 36,2-40 Пирротин (Ро) - FrSB-FeS (Сульфидь 30,4-32,4 35-36,5 99-100 Халькопирит (Cop) - CuFeS: (Сульфид 0-14.5 30-34,2 99-100 SIGN TION AND VION FENDS FED CRIDE NIO MIND MIND MIND MIND MIND MIND CAD NAID KND PLOS ZIND BAD CUD SID SINDS PRO SON COS F HIGH HIGH CHANNA 0-0,4 0-18 32-36,2 0,2-0,5 0-0,1 99-100 0-1,3 0-0.8 0-0.3 0-1.3 0-33 98,5-100 0-0,1 0-1,2 32-34 45-46 0-2,1 98,5-100 56,5-69 0-0,4 0-0,7 0-0,7 99-100 Ангидрит (Arh) - CaSO4 (Сульфат кальция) 0-3 0.1-0.5 0.1-0.5 0-0,6 39-42 0-0,1 0-0,7 0-13,1 0-7,3 34-56 99-100 55-58 42-45 Кальцит (Саі) - СаСОз (Карбон, известн.) 0-0,2 0-1 41-47,5 50,5-52 99-100 47-49,5 0-26,2 0-13 0-8,1 0-15 37-42 CdO = 0-1 99-100 57-63 99-100 57-62 Специальные возможности: проверьте рекомендации

The cost of foreign software is \$700 to \$1500 per year. They left Russia and not a convenient search, without features to kimberlite deposits in composition.

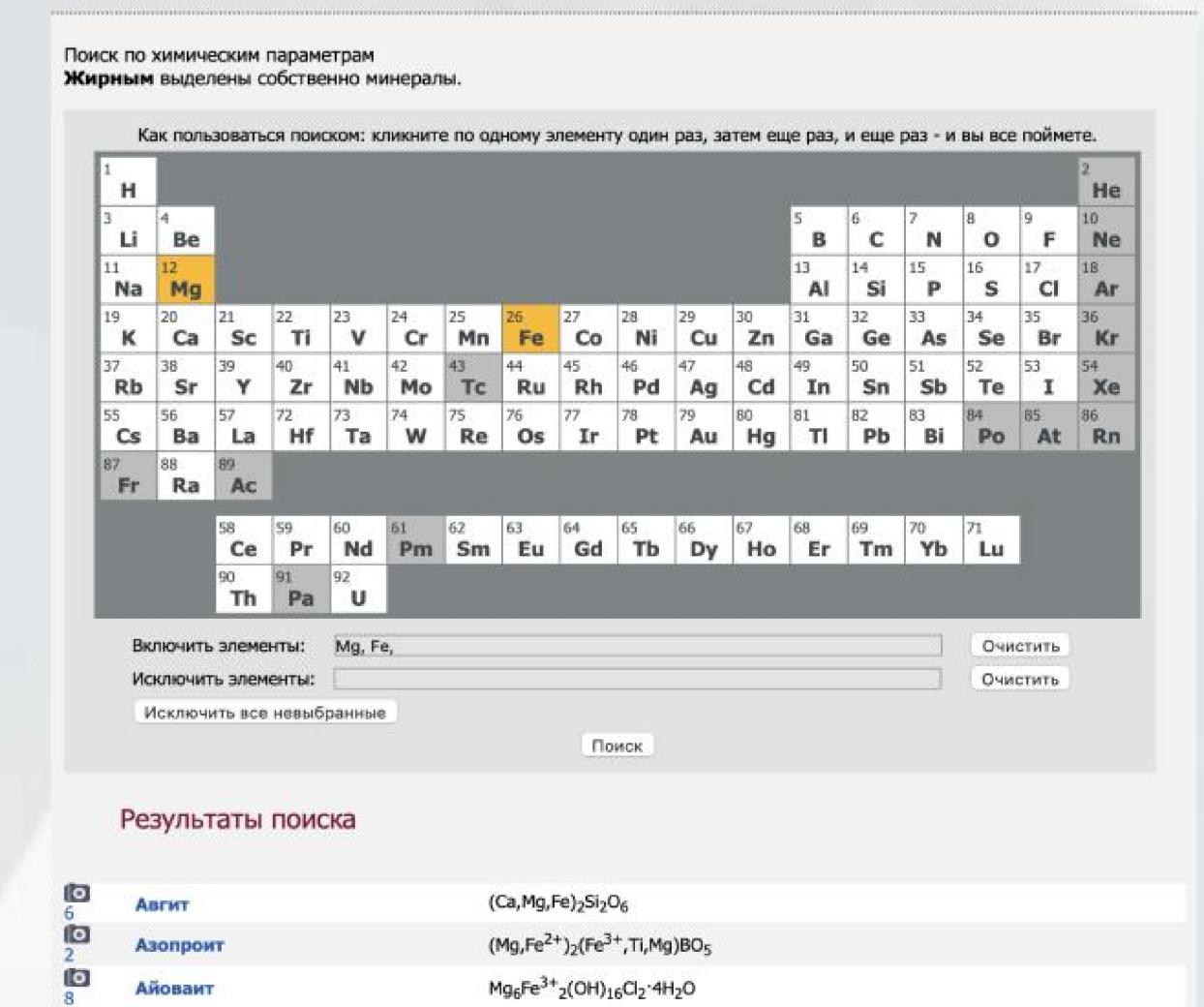
The cost of our database is 10 thousand rubles. in year.

MARKET:

Scientific subdivisions of PJSC ALROSA Departments: geology, enrichment, specialists studying the material composition of rocks. Institutes of the Russian Academy of Sciences and universities of a mining orientation. Russian scientists of the direction of mining.

About the product

The tested shell of the program is for the database.



 $\Box C_{2}(Mg,Fe^{2+})_{5}[Si_{4}O_{11}]_{2}(OH)_{2}$

An application for state registration of the Database is in progress

Актинолит

