

## **The Network Database of the Physical-Chemical Properties of Metals and Alloys**

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The network database on the properties of metals and inorganic materials represented as a three-level program complex: at the first level - DBMS which realizes a storage, providing of access and data managements. The second level is Web server (Apache and JavaWebServer), submitting data access through the Internet on HTTP protocol. The third, connecting level - programs of bond of DBMS and Web a server, these programs are written in Java language, and also earlier made mention ASDEplorer. Now there are operating versions of each of components of the information retrieval SYSTEM: the working model of a network DB, application packages, the integrated sheath ASDE. Propose system will allow uniting these two systems that will establish conditions for more efficient operation of each of them. In the further adding new possibilities, for example, multimedia representation of the information in a data base will be stipulated. The represented information-calculating system (ICS) is oriented to automation of routine operation and intensification of intelligent activity in physics and chemistry of metal melts and inorganic materials. The system represents (see Fig.1) the integrated environment named ASDEplorer functioning on the basis of PC on-line through a local network to the server, having Internet connection. Components of this environment (packages for computer simulation, mathematical processing, graphics data representation, visualizations and database of metals and alloys properties) are united by the "shell" representing the unified interface for access to each package. The network DB is accessible to the exterior user to the address: <http://metalldb.uran.ru/>