

## **IRBOC - Server Software for Working with Thermophysical Databases**

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IRBOC v2 (Interactive Reference Books & Online Calculations) is a server software for working with thermophysical databases. IRBOC is universal: platform may work with different types of databases, database structure may be different. IRBOC is multilingual: English and Russian languages supported. Thermophysical data may contain formulas/formulations and tables.

IRBOC contains:

- Search system. There are 3 types of search: by compound, by properties, by reference.
- Data review page. All data from selected dataset is available on this page.
- Online calculation page. This is page for online calculation of property values in different points.
- Code generator page. User can generate codes of functions for different programming languages (in version 2: Java and Matlab).
- File generator page. User can generate files containing functions for PTC Mathcad and dataset in different formats (electronic tables CSV, TXT textfile, XML datafile).

Navigation is very simple. All pages contain information about dataset. User always can return to the search results. URL for every page and situation is unique. User can reproduce them in future. IRBOC may work with different units. IRBOC has low minimal software and hardware requirements:

- PHP 5+ (Java servlets realizable) and database (MySQL, Oracle, etc.);
- Memory: 512 MB;
- Processor: 500 MHz;
- Disc space: 5 MB + database space.

URL: <http://en.irboc.com>