

Fultus™

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*Electronic Library
of Books and Software
for Scientists, Experts, Teachers and
Students in Natural and Social Sciences*

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User Guide is in root directory of the CD - ReadMe.htm

System Requirements:

Before use the **CD**, confirm that your computer answers the following minimum requirements:

1. **IBM-compatible processor 486, Pentium™**, or **100%** compatible processor.
2. **Windows 95/98/NT/ME/2000/XP**, or later.
3. **64 MB RAM** minimum; **SVGA** or higher graphics card and monitor; **CD-ROM** drive.
4. **Netscape 3.0** or later, **Microsoft Internet Explorer 4.0** or later, or similar Internet browsers.

5. An installed package *Maple* of release **4, 5, 6, 7, 8** and/or **9** (only for providing of operation with *Maple* materials).
6. *Word 95* or later (for providing of reading of **DOC**-files).
7. *Adobe Acrobat Reader* (for providing of reading of **PDF**-files).

Electronic Library of Books and Software:

The present **CD** contains publications (*monographs, text-books, books and papers*) and software created in the *International Academy of Noosphere* under the direction of academician, Prof. **V.Z. ALADJEV** during **1995 – 2005**. Publications in fields such as mathematics, cybernetics, statistics, computer science, systems of computer algebra, physics etc. have been prepared in *English* and *Russian*.

For more detailed acquaintance with contents of the **CD** subdirectories is enough to click on a name of appropriate subdirectory. Moreover, each subdirectory of the **CD** file system contains necessary user guide and instruction about use of files that are located in the subdirectory. Along with that, for convenience each subdirectory of the **BOOKS**-directory contains texts of appropriate books in **DOC**-format and **PDF**-format. **CD** contains the install versions of the user *Maple* library containing more than **575** facilities for releases **6 – 9/9.5**, which simplify programming of various problems from different theoretical and applied fields.

Monographs and Books on the CD:

1. *Aladjev V., Hunt U., Shishakov M. Mathematics on Personal Computer (R; here R – in Russian, E – in English)*
2. *Aladjev V., Shishakov M. Introduction into Media of Mathematical Package Mathematica (R)*
3. *Aladjev V., Vaganov V., Hunt U., Shishakov M. Introduction into Media of Mathematical Package Maple V (R)*
4. *Aladjev V., Vaganov V., Shishakov M., Hunt U. Programming with Mathematical Package Maple V (R)*
5. *Aladjev V., Vaganov V., Shishakov M., Hunt U. Workstation for Mathematicians (R)*
6. *Aladjev V.Z., Bogdevicius M.A. Solution of Physical and Technical, and Mathematical Problems with Maple V (R)*
7. *Aladjev V.Z., Shishakov M.L. Workstation for Mathematicians on the basis of Package Maple (R)*
8. *Aladjev V.Z., Bogdevicius M.A. Maple 6: Solution of Mathematical, Statistical and Physical Problems (R)*
9. *Aladjev V., Bogdevicius M. Interactive Maple: Solution of Mathematical, Statistical and Physical Problems (E)*
10. *Aladjev V., Bogdevicius M. Special Questions of Work in Media of Mathematical Maple Package (R)*
11. *Aladjev V.Z., Vaganov V., Grishin E. Additional Tools for Mathematical Package Maple 6/7 (E)*

12. *Aladjev V.Z. Effective Work in Maple 6/7 (R)*
13. *Aladjev V.Z., Liopo V., Nikitin A. Mathematical Package Maple in Physical Modeling (R)*
14. *Aladjev V.Z., Vaganov V.A. Computer Algebra System Maple: A New Software Library (E)*
15. *Aladjev V., Veetousme R., Hunt U. General Theory of Statistics with using of package MathCAD (R)*
16. *Aladjev V., Hunt U., Shishakov M. Questions of Mathematical Theory of the Classical Cellular Automata (R)*
17. *Efimova M., Hunt U. Geometry of Drawing: Graphical Package AutoTouch (ed. Prof. V.Z. Aladjev) (R)*
18. *Aladjev V., Hunt U., Shishakov M. Scientific-Research Activity of the Tallinn Research Group during 1995 – 1998*
19. *Aladjev V.Z., Bogdevicius M.A., Prentkovskis O. New Software for Package Maple of Releases 6 – 8 (E)*
20. *Aladjev V., Hunt U., Shishakov M. Mathematical Theory of the Classical Cellular Automata (R)*
21. *Aladjev V.Z. Interactive Course of General Theory of Statistics with Using of Mathematical Package Maple (E)*
22. *Aladjev V., Vaganov V. Systems of Computer Algebra: A New Software Toolbox for Maple of Releases 6 – 8 (E)*
23. *Aladjev V.Z. et al. Systems of Computer Algebra: A New Software Toolbox for Maple of Releases 6 – 9 (E)*
24. *Aladjev V.Z. Computer Algebra Systems: A New Software Toolbox for Maple (E)*
25. *Aladjev V.Z. et al. General Theory of Statistics (E)*

A Library of New Tools for Maple of releases 6 – 9

The tools represented in the **Library** increase the range and efficiency of use of **Maple** on **Windows** platform owing to innovations in **three** basic directions: (1) *elimination of a series of basic defects and shortcomings*, (2) *extending of capabilities of a series of standard tools*, and (3) *adding of Maple by new tools increasing the features of its software environment, including tools improving the compatibility level of releases 6 - 9*.

The **Library** is designed for a wide audience of experts, teachers, post-graduates and students of natural-science professions who use **Maple** of releases 6 - 9 on **Windows** platform in their own professional work. The **Library** contains well-designed software (a set of more than 575 procedures and modules), which well supplements the already available **Maple** software with orientation towards the widest circle of the **Maple** users, greatly enhancing its usability and effectiveness. Our experience reveals that the use of the **Library** essentially extends opportunities of **Maple** of releases 6 - 9, simplifying the programming of various practical problems.

This **Library** will present special interest above all for those who use *Maple* not only as a highly intellectual calculator but also as a programming environment for different problems for which the more advanced basic means are desirable. Above all, the means have regard to basic *Maple* objects (*lists, arrays, strings, tables, procedures, modules, etc.*), to an enhancing and improving of the standard *Maple* tools, an access to datafiles, and many others.

All library tools can be viewed and modified by users. Therefore, it is useful to learn the *Maple* programming language so that you can modify existing *Maple* code to produce customized means. Source codes of the **Library** tools introduce the reader into both effective and non-standard programming technique in the *Maple*, better revealing subtleties of the *Maple* programming language.

For Information and Technical Support:

If there are any questions or problems regarding the usage or installation of the CD, call ***International Academy of Noosphere, the Baltic Branch:***

Phone: + (372) 635 6078 or fax: + (372) 600 7969

Check the ***World Wide Web*** sites for additional information about our activity:

<http://writers.fultus.com/aladjev/>

http://www.geocities.com/noosphere_academy (*eng*)

<http://www.aladjev.newmail.ru> (*rus*)

We welcome your feedback.

Direct inquires, suggestions, or comments should be sent to the address:

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