

## ARIZ

**T**he most important instrument of TRIZ is the *Algorithm for Solving Innovative Problems*. All other instruments only assist ARIZ and provide work for it.

One could say that ARIZ was already present in the very first TRIZ publication,<sup>\*)</sup> though the term itself did not come until some time later, in 1965. And the familiar acronym along with its numerical index was first used in the first edition of G. S. Altshuller's book «**Innovation Algorithm**».

ARIZ has been actively developing over the years. This development was ensured by the large number of groups, and then later TRIZ schools, which created TRIZ-motion. Every group and school used a certain general strategy to solve a vast amount of problems. The records of these solutions were studied in detail and analysed. This in turn provided specifications and additions to ARIZ.

For example, more than 5 thousands records analysing a variety of about 150 problems were used for the transfer from ARIZ-68 to ARIZ-71. ARIZ's further development used even a larger information fund.

ARIZ-85V is the latest version of ARIZ, which had to go through a complete and detailed examination. So this is the version used in solving practical and study problems. The study problems in this book are also analysed using ARIZ-85V. <sup>\*\*)</sup>

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<sup>\*)</sup> More in detail about these books look in section **01** «**First step into new science**».

<sup>\*\*)</sup> More in detail about these books look in section **24** «**Education tasks**».

All of the versions of ARIZ, although different in their spans and volume, contain three main elements:

1. **The Program.** ARIZ is a logical sequence of actions, which is directed towards finding the solution of a given problem.

2. **Information Availability.** ARIZ contains a large amount of information, which is needed for constructing the solution. One part of the information is contained within different instruments, and the other part takes the form of footnotes and references to specific information funds.

3. **Control over Psychological Factors.** ARIZ as a whole or as parts of different instruments is intended for controlling psychological factors.

So ARIZ happens to simultaneously be a **technological**, **organisational** as well as **informational** instrument.

Originally ARIZ was used only for solving technological problems, but with further development of TRIZ (mostly the increase of the informational funds) it became possible to use ARIZ for solving problems of different nature, for example, socially-economics problems.

Minimal knowledge of ARIZ (including analysis of study problems) is a must even for most basic beginner stages of studying TRIZ. Application of any other instruments, without the logic of ARIZ, can cause difficulties and it is less likely to get useful results.

