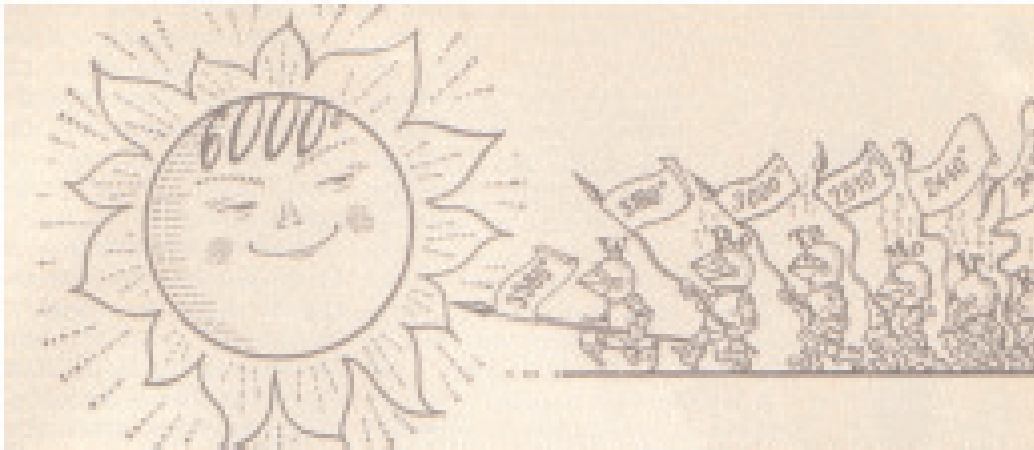
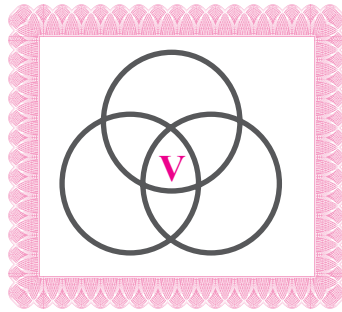




TRIZ

History of the Instruments





It is a little about the future

*«It Is useful to study all new that way,
Which way to inventions will open.»
(G.W. von Leibnic in G.S.Altshuller's statement).*

In translation from latin language «engineer» is «inventor». But actually to create inventions, to create something new it is necessary everyone.

Any knowledge – both at schools, and at universities – are given that each person could solve set of problems(tasks) which arise in life. TRIZ just also it is intended for the decision of such tasks. But TRIZ does not substitute other knowledge. TRIZ only helps to use already acquired knowledge and, probably better, it is more rational to organize new knowledge.

Each person from birth has certain abilities. TRIZ helps to develop and correctly to use these abilities.

The solution of tasks is serious creative activity and demands knowledge, the experience, the advanced imagination, sometimes – a courageous guess.



Our world is combined. It's any part itself consists of many parts. When the task is formulated in a general view, completely not clear what from parts should be changed. The analysis on ARIZ helps to allocate the necessary part of system or the necessary stage of process. The analysis shows, where there is a reason of a problem and as it is necessary for removing. Applying the analysis oby ARIZ it is possible to formulate the words reasonings on steps. Important only thus that the scheme of the analysis was kept. At the decision of tasks by ARIZ it is necessary to adhere to the offered order and a sequence of steps.

TRIZ is under construction not only on laws of development of engineering and generalization of experience of inventors. TRIZ takes into account also mental features of the person. The thinking of inventing person has prominent feature: reflecting above the decision of a task, the person imagines system which should be improved, and mentally changes it.

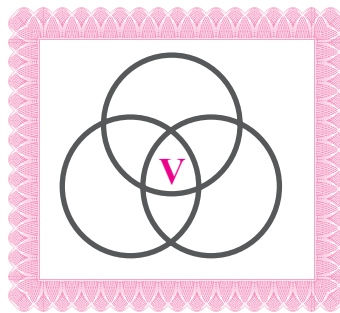
Thus, before the solution of a task it is necessary to make the forecast of development of the given system under the multiscreen circuit and under laws of development of technical systems. It is necessary to collect the information on the given system and to draw the diagram of development of this system. If the system has resources for development it is possible to appear to the decision of a task. And if the system has exhausted resources of the development it is necessary to consider its development in super-system as a part an arch of system.

During the solution of a task is useless to think only abstractly, «in general», rejecting concrete conditions. Always it is desirable to make a start from some existing design, from real the working model.

Insufficiently skilled решатель tasks can take as such initial model already known old design. In this case to it is improvement of an old design will promote in the solution exactly so, as far as possible. The idea of the inventor is held down by opportunities of an old design.



Absolutely other business – to take for a basis for cogitative experiments yet not existing, ideal design. Then the task is reduced to not so to recede from the ideal decision. And the main thing – from all possible directions to define that direction, where it is possible to create the most perspective solution.



In this book all sections necessary for initial studying of TRIZ, only are designated. Further each section goes deep and extends.

The Special attention needs to be turned on such sections:

1. **Practicum** – analysis of problems(tasks) with use ARIZ-85V.
2. **Comments** for the basic classical tools.

Comments to Strategy for Life of the creative person.

Comments to System of Standards-77.

Comments to principles of imagination (including – 50 principles of Altshuller for elimination of technical contradictions).

3. **Comments** to a rate of science fiction.

The Comment to the Register of fantastic ideas.

The Comment to a scale «Phantasy».

The Comment to the base literature on a fantasy.



4. **Scientific effects** from point of TRIZ view.

The Comment to physical effects.

The Comment to chemical effects.

The Comment to mathematical effects.

The Comment to biological effects.

The Comment to social effects.

5. **Comments** to "nonclassical" uses of TRIZ.

Comments to «nonclassical» instruments of TRIZ.

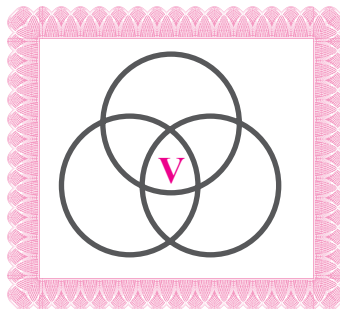
Comments to a rate «Development of creative imagination».

The Comment on application ТРИЗ for social systems.

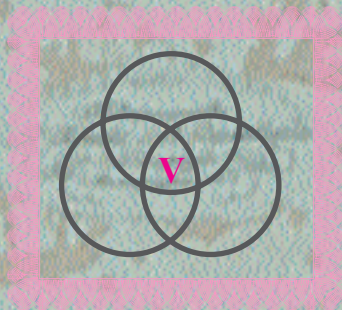
6. History of TRIZ.

Scientific biography of Altshuller.

Development of TRIZ from point of TRIZ view.



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TRIZ Master's Book

