

PHILOSOPHY

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Theoretical and practical solutions of the contradictions of reality, cognition and language

It is examined four main types of logical thinking, which allow resolving in different ways ontological, epistemological and linguistic contradictions. It is shown that in science the *formal logic* is a prevailing approach, which bans or avoids various forms of contradictions. However, the paper argues that for the understanding of evolutionary developing systems it is more effective to use *dialectical logic*, which considers opposites in their integrity and as a necessary precondition for the development of systems. Studies of complex nonlinear systems and processes have also shown that in them the same factors acquire different meanings in different frame of reference or change their meaning and characteristics regarding time and circumstances. Such dynamic and vague parameters are effectively taken into account in *fuzzy logic*. The work also proposes to consider the Eastern, contemplative type of resolving contradictions based on the non-duality of perception and thinking. Such “*Eastern logic*” (represented, for example, by Buddhism) proposes not to oppose and not evaluate events or objects with a binary system of meanings and to rely not on the rational, but on the contemplative understanding of the nature of things.

Key words: formal logic, fuzzy logic, dialectical logic, non-duality, developmental systems.

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