

# On the Issue of Designing Multichannel Automatic Control Systems

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*Abstract.* Automatic control theory contains many technical terms and definitions. Arbitrary use of established terms in a different sense, groundless introduction of new terms or groundless expansion of established concepts, at first glance, is a harmless action. But in essence, such methods make it possible to form new defended provisions and to ascribe to oneself the latest achievements in the following ways: first, by calling known concepts new terms, one can assert the achievement of results that sound in a new way in the new terminology; secondly, such an unjustified renaming makes it possible to assert the achievement of such results that, in the case of correct use of the terminology, have not yet been achieved, or are even fundamentally unattainable. Thus, it is as important to fight for the purity of terminology as for the purity of science in general. This article is intended for students, postgraduates and young scientists carrying out research in the field of automatic control theory or using this theory.

*Key words:* Multichannel control systems, MIMO, MISO, SIMO, control, stabilization.

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