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CONTROL OF RADIATION FACILITY BY VISUAL LASER ALIGNMENT
(pp. 25–29)

Annotation. Based on the experience of laser target, research and field trials in navigation of ships in the river (Neva River, Russia) and sea (ports Baltic and Black Sea) waters it was found that for the best performance of the optical navigation systems of ships and other media of the laser target need an account of the adaptive abilities of the man and his perception of psychophysiological factors. A new approach of building an adaptive laser alignment for mobile objects navigation with laser beam control parameters is proposed. The approach is based on a dynamic real-time stabilization irradiance human eye as a level control means on the basis of the movable optical location. Law of adaptive power control of the laser beam to the impact on the operator's eye for visual object hovering on the alignment of the laser is proposed. The principle was tested in an adaptive control system and diagnostic laser beam parameters of stochastic effects

Keywords: system diagnosis, laser alignment, vision orientation, dynamic object, power light of eyes

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