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Features of perception, methods of demonstration and modern technologies

of three-dimensional images reproduction 29

***Abstract***

***The article considers the process of formation and features of perception of the three-dimensional volume image by human-beings. Description of basic technical principles of reproduction, methods and modern technologies of demonstration of volume and pseudo-volume images is given, their classification is suggested. Technological limitations and possibilities of practical application of different types of three-dimensional images reproduction systems are analyzed.***

***Keywords: three-dimensional image, stereoscopy, holography, 3D cinema, volumetric display, virtual reality (VR), digital hologram, voxel, hogel, brain-computer interface (BCI), depth perception***