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# Elaboration of laser optical systems of technological installations on the base of the laser optics theory

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*The technique of synthesizing the optical systems of laser heads of technological installations with fiber lasers is elaborated. Synthesis and elaboration of design documentation for the manufacture of optical components of the laser head is carried out tacking into account coherence properties of high-power laser radiation and all the characteristic features of the operation of such equipment.*

**Keywords:** *fiber laser, laser head, laser optical systems, design technique, optical system circuitry, laser beam deformation.*

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