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Analysis of activation of active double-clad optical fibers

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Keywords

high power fiber laser, double-clad optical fiber, pump absorption efficiency

Abstract

The paper presents the analysis of double-clad optical fibers activation, used in fiber laser construction. The main focus was the research related to active fiber geometry influence on the value of an effective absorption efficiency coefficient - the parameter which is one of the main determinants of the total fiber laser efficiency. The whole analysis was conducted in geometrical optics approximation and wave-optical approach. The computer programs studied are a very helpful tool in selection of optimal parameters of active double-clad optical fibers.



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