

Study on transmission grating as a signal splitter

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Abstrak

Experimental study on fiber power-splitter using a grating is described. Special attention is paid to the splitting ratio. Experiments were performed with a simple grating confirming the theoretical prediction. Double passing of the grating results in a selectable splitting ratio of 5:7. Grating is made by photographic technique. Parameter b (width of slit) and d (period) of grating are designed with computer simulation.