Abstracts

Two-Wave Sum-Frequency Light Generation in Optical Fibers

Y. Ohmori and Y. Sasaki. "Two-Wave Sum-Frequency Light Generation in Optical Fibers." 1982 Transactions on Microwave Theory and Techniques 30.4 (Apr. 1982 [T-MTT] (Joint Special Issue on Optical Guided Wave Technology)): 604-608.

The generation of phase-matched two-wave sum-frequency light has been observed in optical fibers. A Nd: YAG laser by simultaneous mode-locking and Q-switching or only Q-switching operation is used as a pump laser. The input power dependence and fiber length dependence of the sum-frequency light are investigated in the two pumping methods. The observed coherence length for the sum-frequency light generation is about 200 m.

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