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## All optical method to achieve gain-clamping in broadband distributed fiber Raman amplifiers

*Huai Wei, Zhi Tong, Muguang Wang, Shuisheng Jian*

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### Keywords

fiber Raman amplifier, fiber Bragg grating, gain clamping, power transient

### Abstract

In this paper, we proposed that using a pair of fiber gratings in a section of the transmission fiber, a gain clamped broadband distributed fiber Raman amplifiers (DRA) can easily be made based on the utilization of the pumps' interactions and uneven gain property along the fiber in the amplifier.



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