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掺铒光纤放大器

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封面解读

封面形象地展示了一台新型的少模掺铒光纤放大器(FM-EDFA),内部的增益光纤支持3个线性偏振模(LP01、LP11a和LP11b)同时放大。自制的少模隔离型波分复用器(FM-IWDM)可用于耦合1550 nm信号光和1480 nm泵浦光,支持泵浦模式和泵浦方向的灵活组合。采用同向LP11a和LP11b模组合泵浦方式,开展了高速DP-QPSK模分复用(MDM)信号的放大实验。该全光纤FM-EDFA为高速MDM网络的长距离传输提供了保障。

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