

عنوان مقاله:

Design of GMR-Based Wideband Optical Reflector Using Memetic Algorithm with Fuzzy Logic Local Search

محل انتشار:

مجله سیستم های برق و سیگنال, دوره 2, شماره 2 (سال: 1393)

تعداد صفحات اصل مقاله: 4

نویسندگان:

.Mohammad Ali Bahar - *Department of Electrical Engineering, Ferdowsi University of Mashhad, Iran*

.Mehrdad Shokooh-Saremi - *Department of Electrical Engineering, Ferdowsi University of Mashhad, Iran*

خلاصه مقاله:

Wideband, GMR-based reflector is designed employing a novel variant of memetic algorithm with fuzzy logic local search. High quality, single periodic layer reflector with SOI structure is designed with reflectance $> 99.50\%$ over $1.35 \mu\text{m}$ to $1.9 \mu\text{m}$ spectral band. The proposed optimization/design method is very powerful and able to optimize complex structures with desired optical responses.

کلمات کلیدی:

Guided mode resonance, memetic algorithm, fuzzy logic, periodic structures, optical reflectors

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