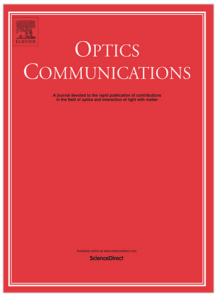

Optical reflectivity and spatial mode localization of white-noise random dielectric oxide multilayers

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Highlights

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. Design of white-noise-like dielectric heterostructures

. Determination of photonic bandgaps in a lossless electromagnetic region

. High relative electric field intensity found for some spatially localized modes

. Analysis of the effect of randomness on the optical properties

. It is proposed a design **configuration** that guarantees broad omnidirectional reflection