
Light Propagation Gain Media Optical Amplifiers

light propagation in gain media - light propagation in gain media over the past two decades, optical amplifiers have become of key importance in modern communications. in addition to this, the technology has applications **light propagation in gain media - gbv** - light propagation in gain media optical amplifiers malin premaratne monash university australia govind p. agrawal the institute of optics university of rochester **light propagation in composite materials with gain layers** - abstract. light propagation through a single gain layer and a multilayer system with gain layers is studied. results obtained using the fresnel formulas, airy's series summation, and the **gain-assisted superluminal light propagation via incoherent ...** - 1 although the problem of propagation of a light pulse inside dispersive media has been studied for more than a century, it still attracts considerable interest. this is because of the discovery ... **theoretical study of fast light with short sech pulses in ...** - propagation does not suffer from these narrow line considerations, since pulses must be short enough that upper level relaxation can be ignored. previous theoretical examinations of fast light in coherent gain media have been reported.^{10,11} however because of stimulated and spontaneous instabilities associated with coherent gain media, large pulse advance was not thought possible when ... **fast light solitons in resonant media - researchgate** - ultraslow propagation of light in gaseous media 2-5, solid-state media 6,7, and two-level saturable absorbers 8,9. work on gain media 10 and media with reverse saturation **gain-assisted superluminal light propagation via ...** - gain-assisted superluminal light propagation via incoherent pump field m. mahmoudi(1), s ... group velocity of light in dispersive media. recently, we have studied the effects of an incoherent pumping field and the spontaneously generated coherence (sgc) on the phase control of group velocity in a three-level -type system [20] and it was shown that the phase-dependent superluminal light ... **commentary unidirectional light propagation at exceptional ...** - commentary unidirectional light propagation at exceptional points xiaobo yin and xiang zhang unique opportunities arise from exceptional points that coalesce states of an open system in synthetic photonic media, where delicately balanced complex dielectric functions produce unprecedented optical properties. the magic garment worn by the fictional wizard harry potter makes him invisible and ... **modelling of light propagation in retinal tissue** - in this paper a number of popular models used to model light propagation in tissue, to gain structural and spectral information are put forward. the success and limitations when applied to real cases are discussed and the construction **light propagation modelling using comsol multiphysics** - in this computer exercise light propagation in biological media will be treated. light induced light induced processes, such as fluorescence and heat transfer, will also be investigated. **mathcal {pt} symmetry breaking in multilayers with ...** - physical review b98, 125102 (2018) pt symmetry breaking in multilayers with resonant loss and gain locks light propagation direction denis v. novitsky, 1,2,3 * alina karabchevsky,4 5 6 andrei v. lavrinenko,7 alexander s. shalin,2 and andrey v. novitsky7,8 **temporal manipulation of light propagation via cross ...** - phenomena that light propagates in media or structures at low group velocity v_g (slow light, v_g or negative). **gain-assisted superluminal optical solitons at very low ...** - gain-assisted superluminal optical solitons at very low light intensity guoxiang huang,1 chao hang,1 and l. deng2 1state key laboratory of precision spectroscopy and department of physics, east china normal university, shanghai 200062, china

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