Nonlinear Photonic Crystals

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How to Cite. Arie, A. and Voloch, N. (2010), Periodic, quasi-periodic, and random quadratic nonlinear photonic crystals. Laser & Photon. Rev., 4: 355 373. doi: 10

A photonic crystal is a periodic optical nanostructure that affects the motion of photons in much the same way that ionic lattices affect electrons in solids.

Please refer to the Fiber Optic Basics Tutorial for more detailed information on the properties of photonic crystal fiber. Newport's broad photonic crystal fiber

Different types of quadratic, radially symmetric, nonlinear photonic crystals are presented. The modulation of the nonlinear coefficient may be a periodic or an

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Optimized for supercontinuum generation and nonlinear wavelength conversion, our nonlinear photonic crystal fibers offers a unique combination of tailored dispersion

Nonlinear Crystals A nonlinear crystal is an optical crystal that possesses a strong nonlinear dielectric response function to optical radiation.

The strong waveguide dispersion in photonic crystal fibres (PCFs) provides unique opportunities for nonlinear optics with a zero-dispersion wavelength 0 far below

Bloch modes and self-localized waveguides in nonlinear photonic crystals Bj rn Maes, Peter Bienstman, and Roel Baets

Nonlinear photonic crystals in chalcogenide films. C. Grillet; We show that marrying photonic crystal and a new class of highly non linear material,

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Nonlinear Photonic Crystals Sergei Mingaleev and Yuri Kivshar Photonic crystals, an analog of semiconductors f or light waves, are composite periodic dielectric

Nonlinear photonic crystal (NPC) is a kind of processed ferroelectric crystal, in which partial domains are reversed by applying high voltage electric field.

Abstract. Coupled-mode equations are derived from Maxwell equations for modeling of lowcontrast cubic-lattice photonic crystals in three spatial dimensions.

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A numerical study of second harmonic generation (SHG) in one-dimensional nonlinear photonic crystals based on full nonlinear system of equations, implemented by
Nonlinear photonic crystals are usually used as quasi-phase-matching materials. They can be either one-dimensional or two-dimensional.

Nonlinear photonic crystals have been extensively studied theoretically, 5,6,7 but less has been done experimentally 4,5,6,7,8 in part due to fabrication issues.

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arXiv:physics/0202048v1 [physics.optics] 18 Feb 2002 Optical chaos in nonlinear photonic crystals Kirill N. Alekseev1,2,3 , Aleksey V. Ponomarev 3,4

Proc. SPIE 6604, 14th International School on Quantum Electronics: Laser Physics and Applications, 66041A (March 05, 2007); doi:10.1117/12.726975

Nonlinear optical studies of periodic dielectric structures have blossomed in the past two decades. New fabrication techniques are producing fiber grating

These highly nonlinear photonic crystal fibers guide light in a small solid silica core surrounded by large air holes.

Inbunden, 2002. Pris 1975 kr. K p Nonlinear Photonic Crystals (9783540439004) av Richart E Slusher, Benjamin J Eggleton, Murray Hill p Bokus.com