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and biomedical applications. This new edition has been thoroughly updated to incorporate these key technology developments. Applications of Nonlinear Fiber Optics | ScienceDirect RP Photonics: technical consulting services and software in laser design, amplifiers, nonlinear optics, fiber optics, fiber lasers and amplifiers, ultrashort light pulses. RP Photonics - consulting on laser technology, nonlinear ... Nonlinear photonic crystal fibers Optimized for supercontinuum generation and nonlinear wavelength conversion, our nonlinear photonic crystal fibers offers a unique combination of tailored dispersion profile and a very high nonlinear coefficient. PHOTONIC CRYSTAL FIBERS - NKT Photonics Buy Applications of Nonlinear Fiber Optics (Optics & Photonics Series) 2 by Agrawal (ISBN: 9780123743022) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders. Applications of Nonlinear Fiber Optics (Optics & Photonics ... Highly nonlinear fibers are new types of fibers in which the effective mode area is reduced to enhance the nonlinear effects. This category includes tapered fibers, photonic crystal fibers, and microstructured fibers in which a narrow silica core is surrounded with a cladding containing multiple air holes. The Institute of Optics - University of Rochester These highly nonlinear photonic crystal fibers guide light in a small solid silica core surrounded by large air holes. The optical properties of these structures closely resemble those of a rod of glass suspended in air, resulting in strong confinement of the light and, correspondingly, a large nonlinear coefficient. Highly Nonlinear Photonic Crystal Fiber - Thorlabs In this paper, we present an experimental investigation on the SBS property in a highly nonlinear photonic crystal fiber (HNL-PCF) with a hybrid core of highly Ge-doped and F- doped regions. It was experimentally observed five Brillouin resonance peaks with ~300 MHz frequency spacing in the BGS.

In this paper, we present an experimental investigation on the SBS property in a highly nonlinear photonic crystal fiber (HNL-PCF) with a hybrid core of highly Ge-doped and F- doped regions. It was experimentally observed five Brillouin resonance peaks with ~300 MHz frequency spacing in the BGS.

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Highly nonlinear photonic crystal fibers are designed with a small core to get a high nonlinear coefficient. The air-filled microstructured cladding region of nonlinear photonic crystal fibers lends this fiber type several advantages compared to standard step-index fibers. The high index difference between the silica core and the air-filled microstructure enables tight mode confinement resulting in a low effective area and thereby a high nonlinear coefficient.

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The development of new highly nonlinear fibers - referred to as microstructured fibers, holey fibers and photonic crystal fibers - is the next generation technology for all-optical signal processing and biomedical applications. This new edition has been thoroughly updated to incorporate these key technology developments.

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Highly nonlinear fibers are new types of fibers in which the

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This category includes tapered fibers, photonic crystal fibers, and microstructured fibers in which a narrow silica core is surrounded with a cladding containing multiple air holes.

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A novel Ge 20 Sb 15 Se 65 based photonic crystal fiber (PCF) with

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An important value for the calculation of the strength of nonlinear

effects is the ratio between the nonlinear refractive-index

coefficient, n^2 (Kerr constant), and the effective area for a given

wavelength of the optical field ($\gamma = 2\pi \cdot n^2 / A_{\text{eff}} \cdot \lambda$) where $n^2 =$

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New highly nonlinear fiber (HNLF) features stable phase matching

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These highly nonlinear photonic crystal fibers guide light in a small solid silica core surrounded by large air holes. The optical properties of these structures closely resemble those of a rod of glass suspended in air, resulting in strong confinement of the light and, correspondingly, a large nonlinear coefficient.

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