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Sub-GHz modulation of light with dielectric nanomechanical ...

~~Sub-GHz Modulation of Light with Dielectric Nanomechanical Metamaterials Artemios Karvounis^{1*}, Jun-Yu Ou¹, Behrad Gholipour¹, Weiping Wu¹, Kevin F. MacDonald¹, and Nikolay I. Zheludev^{1, 2} 1Optoelectronics Research Centre & Centre for Photonic Metamaterials, University of Southampton, S017 1BJ, UK 2Centre for disruptive Photonic Technologies, Nanyang Technological University, Singapore~~

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~~Sub-GHz modulation of light with dielectric nanomechanical metamaterials Karvounis, Artemios, Ou, Jun-Yu, Gholipour, Behrad, Wu, Weiping, MacDonald, Kevin and Zheludev, Nikolai (2016) Sub-GHz modulation of light with dielectric nanomechanical metamaterials. CLEO2016, United States. ...~~

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The so-called Sub GHz literally refers to wireless communication with a frequency band below 1 GHz, but many frequency bands that have been used in TV, radio, and mobile networks still need to be deducted. The frequency bands that are really used for IoT applications are mostly 315 MHz, 433 MHz, 868MHz, 915MHz, etc.

Sub GHz makes IoT applications cover a longer distance and ...

Sub-GHz solutions are also used in the implementation of Smart City infrastructures where each wireless node is part of a network. Nodes are monitored and controlled, and their data can be used for managing light, parking and traffic systems; saving energy and improving the quality of life.

Sub-GHz: An emerging WLAN alternative for IoT applications ...

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Quantum-Dot Lasers 298. 3. The Quantum-Dot Intensity Modulator 302. IV. Quantum Dots as a Nonlinear Medium 303 1. The Need for Large Nonlinearity with a Large Bandwidth 303. 2. Analysis of χ (3) 306 ...

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The electro-optic response (EOR) is defined as $EOR = OMA(f_{RF})/OMA(DC)$, where $OMA(f_{RF})$ is the Optical Modulation Amplitude at the RF frequency (e.g., $f_{RF} = 32, 40, \dots, 105$ GHz), and $OMA(DC)$ is its value at the DC voltage applied to the electro-optic modulator (the so-called biasing curve). The OMA is defined in terms of the eye diagram (as usual) as the difference between the "1" and "0" power levels in Watts.

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