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Frequencies Corresponds To The Segment Of The Electromagnetic Spectrum From 0.3 THz To 3 THz (corresponding To Wavelengths In The Range Of 0.1 Mm ~ 1 Mm) In Between The Millimeter And Far-infra (IR) Waves [2]. Due To The Lack Of THz Sources And Detectors, The THz Band Has Not Been Thoroughly Explored For Communications [3].

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Ultrafast Optical Switching Of Terahertz Metamaterials ... Ultrafast Optical Switching Of Terahertz Metamaterials Fabricated On ErAs/GaAs Nanoisland Superlattices Hou-Tong Chen,<sup>1,\*</sup> Willie J. Padilla,<sup>2</sup> Joshua M. O. Zide,<sup>3</sup> Seth R. Bank,<sup>3</sup> Arthur C. Gossard,<sup>3</sup> Antoinette J. Taylor,<sup>1</sup> And Richard D. Averitt<sup>4</sup> <sup>1</sup>Los Alamos National Laboratory, MPA-CINT, MS K771, Los Alamos, New Mexico 875

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