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Accession number: 12696651 Title:Intense resonance Authors:Baldwin, J. (1) Author affiliation:(1) IET, Stevenage, United Kingdom Source title:Electronics Letters Abbreviated source title:Electron. Lett. (UK) Volume:48 Issue:10 Publication date:10 May 2012 Pages:536 Language:English ISSN:0013-5194 CODEN:ELLEAK Document type: Journal article (JA) Publisher:IET Country of publication:UK Material Identity Number: BN60-2012-010 Abstract:Researchers from the Tokyo Institute of Technology have demonstrated a direct

Abstract:Researchers from the Tokyo Institute of Technology have demonstrated a direct modulation of the output power of a resonant tunnelling diode (RTD) oscillator and measured its frequency response in the THz frequency range. They have also achieved wireless data transmission at 542 GHz, the first report of wireless communication in this range.

Number of references:0

Inspec controlled terms:resonant tunnelling diodes - submillimetre wave diodes - submillimetre wave oscillators

Uncontrolled terms:direct modulation - resonant tunnelling diode oscillator - RTD oscillator - frequency response - THz frequency range - wireless data transmission - wireless communication - frequency 542 GHz

Inspec classification codes:B1230B Oscillators - B1350F Solid-state microwave circuits and devices - B2560X Quantum interference devices - B2560H Junction and barrier diodes

Numerical data indexing: frequency 5.42E+11 Hz

Treatment:Practical (PRA)

Discipline:Electrical/Electronic engineering (B)

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