

Terahertz science and technology is attracting great interest due to its application in a wide array of fields made possible by the development of new and improved terahertz radiation sources and detectors. This book focuses on the development and characterization of one such source - namely the semi-large aperture photoconducting (PC) antenna fabricated on Fe-doped bulk Ga<sub>0.69</sub>In<sub>0.31</sub>As substrate. The high ultrafast carrier mobility, high resistivity, and subpicosecond carrier lifetime along with low bandgap make Ga<sub>0.69</sub>In<sub>0.31</sub>As an excellent candidate for PC antenna based THz emitter that can be photoexcited by compact Yb-based multiwatt laser systems for high power THz emission. The research is aimed at evaluating the impact of physical properties of a semi-large aperture Ga<sub>0.69</sub>In<sub>0.31</sub>As PC antenna upon its THz generation efficiency, and is motivated by the ultimate goal of developing a high-power terahertz radiation source for time-domain terahertz spectroscopy and imaging systems.

The Great Texas Stamp Collection: How Some Stubborn Texas Confederate Postmasters, a Handful of Determined Texas Stamp Collectors, and a Few of the ... Postage Stamps (Charles N. Prothro Texana), Fiber Reinforced Concrete (SP 039), The Spice of Flight: A Former RAF Pilots Flying Experiences from Fast Jets to Helicopters in the 1960s/70s, Voyages in the Arctic seas, from 1821 to 1825, for the discovery of a north-west passage to the Pacific Ocean., Anacondas: On the Hunt (Killer Animals),

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