

Review of: "Investigations on Input Impedance and Radiation Pattern of a UWB Antenna for Microwave Imaging"

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Potential competing interests: No potential competing interests to declare.

The paper is well-structured, with clear section separation to aid comprehension. The authors provide a thorough discussion of UWB antenna design, including problems, past research, and possible solutions. The methodology section provides a detailed explanation of materials, tools, and processes, which improves repeatability. The usage of CST Microwave Studio for antenna optimization is supported, since it demonstrates successful improvement of design parameters.

Detailed insights into antenna performance, including impedance bandwidth and radiation pattern, are offered, along with extensive analysis. Empirical validation boosts credibility, whereas comparisons of simulated and measured outcomes improve dependability. Overall, the wording is straightforward and suitable, albeit small grammar problems may be corrected for better reading. Figures and tables help to display facts and complement text effectively. The conclusion provides a concise summary of major discoveries and contributions, as well as insights into future ramifications.

In summary, the study presents a noteworthy contribution to the UWB antenna design literature, with rigorous methodology and relevant findings.