

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

George A. Kyriacou¹

¹ Dimocritus University of Thrace

Potential competing interests: No potential competing interests to declare.

This article elaborates on “antennas operating over the entire UWB band (3.1-10.6GHz)”. Explicitly, three types of antennas are presented:

1. A cavity-backed printed monopole fork-shaped antenna (Fig.3.)
2. A semi-circular slot antenna over a dual-layer FSS reflector (Fig.9.)
3. A coplanar waveguide-fed printed rectangular antenna placed above a reflector (Fig. 12.)

The three antennas are well presented, and their performance is acceptable. However, the employed technology is well known and widely published. Even though the article could be of interest to readers, provided that a design approach will be given, for this purpose, the following changes are suggested.

- a. For each antenna type, give an initial design procedure utilizing expressions and/or guidelines given in the related references.
- b. Explain which antenna parameters should be optimized in order to achieve the desired characteristics.

What the authors can keep in mind is that the description should allow the reader to repeat the design for similar antennas.