"CO" shape wire antenna

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The antenna structure is presented by two wires, one is arc shaped and another loop shaped. The antenna shape reminds concentrically placed letters "C" and "O" and for simplicity it is called "CO". The main idea is to get antenna with simple design and directional radiation pattern. The antenna is studied numerically and simulation results are presented and discussed in this paper.

References

- Christos G. Christodoulou, Parveen F. WahidJ Fundamentals of Antennas: Concepts and Applications. 2001.
- [2] Constantine A. Balanis Antenna Theory: Analysis and Design. Wiley 2009.
- [3] Subhas Chandra Mukhopadhyay, Aimé Lay-Ekuakille, Anton Fuchs. New Developments and Applications in Sensing Technology. Spriger 2011.
 [4] Karlo Q. da Costa, Victor Dmitriev. Combination of electric and magnetic dipoles with single-element feeding for broadband applications. Microwave and Optical Technology Letters, 4 November 2005.
- [5] Boris Z. Katsenelenbaum. Electromagnetic Fields: Restrictions and Approximation. Wiley 2003
- [6] Roger F. Harrington Field Computation by Moment Methods. Wiley 1993.