

Design and simulation of a log-periodic antenna in the frequency range [300 – 400] MHz

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Abstract: In the context of the increasing demand for mobile devices and data transmission in the 300-400MHz frequency band, this topic focuses on the design and simulation of a log-periodic antenna. The objective of the research is to create an effective solution to optimize coverage and transmission performance within the specified frequency band. The approach combines both theoretical and experimental methods to evaluate the key characteristics of the antenna design. The expected results will provide valuable information for practical application deployment, while contributing to the development of wireless transmission technology.

Keywords: Log-periodic antenna, frequency range 300-400MHz, antenna simulation, antenna design, coverage