Abstract

The log periodic antenna and Yagi-Uda antenna are used in the applications where very high directivity is required. They also give very high gain in the range of 17-20dBi. This paper presents a review on various configurations of log periodic and Yagi antennas, their advantages and problems. One problem encountered with Yagi-Uda antenna is relatively less bandwidth. This problem is solved by log periodic antenna which can operate over high bandwidth and providing high gain at the same time. In this paper, a review of various techniques to realize printed Yagi-Uda and log periodic antenna is discussed. They are realized by using different feeding techniques like microstrip feeding, co-axial feeding etc. They are also realized by using modifying the shape of directors and reflectors. The high bandwidth (log periodic antenna) has also been realized by increasing the number of reflectors.

References
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2. X. Ding, B.-Z. Wang, R. Zang, "Design and Realization of a Printed Microstrip Log-Periodic Antenna", IEEE, Electromagnetics; Applications and Student Innovation (iWEM), AUG 2012 IEEE International

Index Terms

Computer Science
Pattern Recognition

Keywords