Abstracts

A switchable multi-sector antenna for indoor wireless LAN systems in the 60-GHz band

Y. Murakami, T. Kijima, H. Iwasaki, T. Ihara, T. Manabe and K. Iigusa. "A switchable multi-sector antenna for indoor wireless LAN systems in the 60-GHz band." 1998 Transactions on Microwave Theory and Techniques 46.6 (Jun. 1998 [T-MTT]): 841-843.

A switchable multi-sector antenna for indoor wireless local-area network (LAN) systems in the 60-GHz band has been proposed. The antenna has a pyramidal configuration. Each isosceles-triangular surface of the pyramid has been inclined 30/spl deg/ from the vertical axis in order to cover an appropriate elevation angle range. This antenna excites a right-handed circularly polarized wave to suppress unwanted multipath delayed waves. The low-loss curved microstrip-line feeding has been introduced at the junction between antenna feed lines and monolithic microwave integrated circuit (MMIC) amplifiers at the bottoms of the pyramid. Using this antenna, a terminal receiver for indoor wireless LAN systems in the 60-GHz band has been developed.

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