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Abstract
The designs of printed slot antennas for multi-band have been investigated in this thesis. All the antennas are feed by a 50- microstrip line. We design the triple-band polygonal slot antenna and dual-band rectangular slot antenna respectively. First, we examined the polygonal slot antenna with a broadband effect (1.85GHz~5.83GHz). And, we inserted two narrow strips into the polygonal slot to rejected two bands. By properly choosing the length and location of the two narrow strips, the triple bands of WiMAX can be achieved. Next, based on the design of wide slot antenna, we design the rectangular slot antenna with a broadband effect (4.475GHz~5.83GHz). And, we inserted a narrow strip respect to the x axis into the bottom of rectangle slot antenna. This arrangement produces the low band (2.425GHz~2.775GHz). Combine the low band and the high band caused by rectangular slot to from a dual-band antenna. By properly choosing the position and location of the narrow strip, the dual-band antenna for WLAN application can be achieved.
In this thesis, we not only investigate the impedance matching of the antenna, but also radiation patterns and gain.
Advisory Committee Wen-Shan Chen - advisor

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