

Dual Band Microstrip Patch Antenna for WiMAX Application



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(Katrine Kohler DVM)

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LAP Lambert Academic Publishing Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x7 mm. This item is printed on demand - Print on Demand Neuware - The design of dual-band microstrip patch antenna based on E-shaped patch for WiMAX (Wireless Interoperability for Microwave Access) application is presented. The proposed antenna is simulated by Electromagnetic simulator, XFDTD (Finite Difference Time Domain Method). The simulation result shows the antenna system resonates at 1.54GHz and 1.97GHz frequencies. These dual band frequencies are suitable for WiMAX applications. The parameters are calculated for outer dimensions of the E-shaped microstrip patch antenna on the basis of line width to substrate thickness (W/h) ratio by considering loss less dielectric material (FR-4 Duroid material). The characteristic line impedance and effective dielectric constant are calculated by considering different values of W/h ratio like 2, 3 and 4. The comparative statement among characteristic line impedance and effective dielectric constant with W/h ratio are presented. This project work also presents how to choose the dimensions of the patch for design a microstrip patch antenna at specific frequency band by a certain dielectric material. The proposed antenna has a centre frequency 2GHz. 116 pp. Englisch.

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