

Sate of Libya

Ministry of Education

AL Asmarya Islamic University Faculty of Engineering

DESIGN OF RECTANGULAR MICROSTRIP ANTENNA

USING (HFSS) SIMULATOR

This graduation project is submitted to Al Asmarya Islamic University in partial fulfillment of the requirements of the award of bachelor's degree in electrical engineering and computer

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ABSTRACT

The rapid growth of communication technology involved developing different kinds of antennas has different functionalities and can be used in different applications. In this project, the rectangular microstrip antenna is studied, analyzed and designed using two simulation software's (HFSS and PC AAD). Because this kind of antenna is being widely used in wireless communications technology nowadays, the designing steps of this antenna are demonstrated in this project for 2.4GHz application including the experiment procedure and calculating its properties using computer simulation programs mentioned above.