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Experience gained in modifying and implementing A quadcopter is designed using Autodesk generative design embedded in Fusion The simulation results such as static stress-strain, modal frequency and displacement IJREAMApproved By UGC Quadcopters also known as quadrotors or multirotor aircrafts are emerging favorites in unmanned aerial vehicle (UAV) designIt is found that the proposed design is safe as very small deformations occurred on the plates. There is no particular design for such type of UAV because ongoing research in new designs is unstable with nature of the conventional designs. Constraint: The quadcopter which is located on the ground due to the static condition the component tray is said to befixed A quadrotor helicopter (quadcopter) is a helicopter which has four equally spaced ro-tors, usually arranged at the corners of a square body Modelling and control of quadcopter Teppo LuukkonenAalto University in Espoo, Finland "Present the basics of quadcopter modelling and control as to form a basis for further research and development" Study the mathematical model of the quadcopter dynamics Develop proper methods for stabilisation and trajectory control of the quadcopter This paper presents the design procedure, selection of all components, and manufacturing of a quadcopter. The complicated design of the rotor and swashplate mechanism presents some problems, increasing construction costs and design complexity. Figure () Lift force: The force generated by the propeller of the plane and its PDF Quadcopter is an unmanned aerial vehicle, which can be implemented in different applicationsquadcopter, design, appl ication, controlINTRODUCTIONCalculation of the control Design of Quadcopter Quadcopter system works on the principle of air lifting phenomena with high pressure. motors, battery, control circuits, camera etc. Due to this reason its design becomes an important parameter affecting the performance of the quadcopter more thrust is produced on one side of the rotor plane than the other. Develop proper methods for stabilisation and trajectory control of the quadcopter. So each entity has a load ofN. Quadcopter frame (1) Body frame (2) FigInertial frame (2) Electronic Speed Controllers (5) The SubsystemOptimization of the frame design (Gaurav Pokharkar) The frame is the basic structure which holds all the components of the quadcopter i.e. So the load at each entity can be of grams including batteries and electronic circuits. "The challengeis that the Quadcopter is a typical design for small unmanned aerial vehicles (UAV) because of the simple structure. Quadcopters are used in surveillance, search and rescue, Quadcopters are symmetrical and embody the simplest principle of operation for controlling roll, pitch, yaw and motion. As can be seen from the figure, the efficiency of operation of quadcopter by improving efficiency of propulsion system, minimizing the overall weight of the frame and optimum placement of different Study the mathematical model of the quadcopter dynamics. The circles in yellow correspond to rotors with sense of clockwise rotation and blue circles to rotors with sense of counterclockwise rotation. Every new design is aimed to be more stable and manoeuvrable quadcopter located on the ground has to move motors.