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# **Antenna Azimuth Position Control System Solution File Type**

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## **Antenna Azimuth Position Control System**

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system. Replacing the

power amplifier gain

with unity and. letting

the pre-amplifier gain  $K$

equal to 1000, we find

$G(s)$  and closed loop

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transfer function  $T(s)$

as:  $G(s) = \frac{66.3}{s(s+1.71)}$  and  $T(s)$

$= \frac{66.3}{s^2 + 1.71s + 66.3}$  From above

equation of  $T(s)$  we get

$n = 8.14$  and damping

ratio = 0.105.

## **Antenna Azimuth Position Control System | Control Theory ...**

The issue of antenna azimuth position control has become one of the many aspects

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ts that have drawn the attention of researchers in the control of antenna placement. These interests are due to the...

**(PDF) Antenna Azimuth Position Control System using PID ...**

International Journal of Electrical and Computer Engineering  
Nowadays the antenna azimuth position

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control system is used in many advance applications like robots, computer disks and so on.

## **Antenna Azimuth Position Control System Using PID ...**

The antenna azimuth position control system turns the input command in output position. This system is widely used in antennas, robots and computers disks. In this

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paper we present the systems that are managed with azimuth antenna. We're going to show how the system works and how its performance can be improved.

**Modeling and  
Simulation of  
Antenna Azimuth  
Position ...**

Antenna Azimuth  
Position Control  
System Analysis and  
Controller



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**(PDF) Antenna  
Azimuth Position  
Control System  
Analysis and ...**

The goal of this study is to ensure the minimum angle deviation after the antenna is rotated. For this purpose, the antenna position control system is designed in MATLAB/Simulink and

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PID, fuzzy...

## **(PDF) Antenna azimuth position control with PID, fuzzy ...**

As expressed in previous section, an antenna azimuth position control system consists of two potentiometers which first one is used as input and the second one is used as a feedback, a preamplifier, a power

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amplifier, an armature  
controlled dc motor  
and a load which is  
antenna.

## **Antenna Azimuth Position Control with Fuzzy Logic and Self**

...

The antenna azimuth  
control system  
currently available on  
the market is described  
as a servo controlled  
antenna through the  
use of gears and  
feedback

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potentiometers. The current design lacks any sort of compensator controller that would provide stability control. Our team must analyze the current configuration and determine the stability.

## **Antenna Azimuth Controller Design**

The layout of an antenna azimuth position control system is shown in Figure 1

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Layout Potentiometer  
Antenna 0;(1) Desired  
azimuth angle input (1)  
Azimuth angle output  
Differential amplifier  
and power amplifier  
Motor Potentiometer  
Figure 1: This system  
has a Schematic  
diagram as shown in  
Figure 2 The Schematic  
Parameters are listed  
in the Figure 3 (only  
use Configuration 1  
and disregard the ...

**The Layout Of An**

*Page 13/26*

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A position control system converts a position input command to a position output response.

Position control finds widespread applications in antennas, robot arms, and computer disk drives. The radio telescope antenna in Fig. 1 is one example. The purpose of this system is to have the

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azimuth angle output  
follow the input angle.

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## **Antenna Azimuth Controller Design | Control Theory ...**

Nowadays the antenna azimuth position control system is used in many advance applications like robots, computer disks and so on. Modeling, simulation and control of this antenna is implemented in this paper. Firstly, the

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modeling of the system

is done in frequency

range (with transfer

function) and PID

controller is used to

control the system as

well as, Ziegler-Nichols

is used to tune the PID

parameter gains.

**Figure 4 from  
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System ...**

Given the block

diagram of the antenna

azimuth position



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control system, specify a discrete compensator GC (z) such that the closed loop system approximately meets the following: (1) 4% overshoot to a unit step input, (2) a settling time of 5 seconds, and (3) a steady state error of 1% to a unit ramp input.

## **Satellite Tracking Controls Modelling**

An antenna azimuth

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## Antenna Azimuth

## Position Control

## System Solution

position control system is shown in Figure 1.9(a), with a more detailed layout and schematic in Figures 1.9(b) and 1.9(c), respectively. Figure 1.9(d) shows a functional block diagram of the system. The functions are shown above the blocks, and the required hardware is indicated inside the blocks.

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**An antenna azimuth position control system is shown in**

...

C. Figure Q4 (c) - (d) shows the frequency response of antenna azimuth position control system represented by a transfer function  $K G(S) = \frac{K}{(s+5)(s+20)(s+50)}$  and in the form of unity feedback. -60 -80 -100 -120 20 log M -140 -160 -180 100 1000 10 Frequency

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(rad/s) Figure Q4 (c) -

Bode log-magnitude 0

-50 -100 - 150 Phase)

-200 -250 -300 1 100

1000 10 Frequency

(rad/s) Figure Q4 (d) -

Bode log-phase Based

on the Bode plot of

Figure Q4 (c) - (d),

answer the followings:

i.

**C. Figure Q4 (c) - (d)**

**Shows The**

**Frequency Respons**

...

The EMM-Natal project

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includes an Antenna Control System. This system is responsible for the control of the antenna for satellite tracking. Section 2 below presents its physical structure and control system. Section 3 describes the software, developed in GNU/Linux platform. Results are presented in section 4.

## **CONTROL SYSTEM FOR SATELLITE**

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## **TRACKING ANTENNA**

ScienceDirect

The system was tested

to move at an

elevation angle of 45

degrees and 90

degrees in the azimuth

axis and programmed

to return to its original

position.

## **Antenna Positioning System Test**

Two major control

loops of the antenna

control system are the

position loop and rate

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loop. The position loop drives the antenna based on a desired angle command. Figure 1 is a functional block diagram of a typical position control loop. A major component of the position loop is the rate loop.

**Antenna Servo  
Control System  
Characterization:  
Rate Loop ...**

An antenna positioner control system and

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related method is disclosed. The antenna positioner control system includes a housing and a hub mounted within a housing. A support plate is rotatably...

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Antenna positioner  
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The varying duty cycles result in a controllable torque across the antenna



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## Antenna Azimuth Position Control

motors and consequently, a speed control system. For the different binary states of the DAC input to the parallel port bits, the speed of rotation of the antenna along the azimuth axis was measured in revolutions per minute (rpm).

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