

Antenna Azimuth Position Control System Solution

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antenna azimuth position control 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 transfer function T(s) as: $G(s) = 66.3/s(s+1.71)$ and $T(s) = 66.3/s^2 + 1.71s + 66.3$ From above equation of T(s) we get $n = 8.14$ and. damping ratio = 0.105.

Antenna Azimuth Position Control System | Control Theory ...

The 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 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.

Antenna Azimuth Position Control System Solution

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

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Modeling and Simulation of Antenna Azimuth Position ...

Block diagram of antenna-azimuth position controlling system. The process starts with the turning of input angular rotation by the potentiometer into a voltage. Similarly, in the output region, the potentiometer converts the rotation angle to voltage, and returned back to the input with a feedback.

Antenna Azimuth Position Control System using PID ...

Antenna Azimuth Position Control System Analysis and Controller Implementation Approvals

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

A position control system converts an input position command to an output position response. Antennas, computer disk drives and robot arms contains many applications of position control system. The...

RADIO TELESCOPE ANTENNA AZIMUTH POSITION CONTROL SYSTEM ...

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 azimuth angle output follow the input angle.

Antenna Azimuth Controller Design | Control Theory ...

Problem: Given the antenna azimuth position control system shown on Fig. 1 and Fig.2 Configuration 1, do the following: (i) Configuration 1 Desired azimuth angle input Parameter 0.318 100 100 2.083 1.71 Km Differential amplifier and power amplifier Motor Fig.1 Layout and configuration of antenna azimuth position control system. azimuth Potentiometer angle input Motor and load Gears angle output liner (s + a s + a Fig.2 Block diagram of antenna azimuth position control system (1) Find the ...

Solved: Problem: Given The Antenna Azimuth Position Contro ...

The antenna position is fixed by setting two angles (1) azimuth angle (2) elevation angle. These are set by entering their values. Once these values are entered, the dish antenna moves in the horizontal and vertical direction using 2 DC gear motors, one for each direction (angle).

Satellite dish antenna angle controller using ATmega16

The layout of an antenna azimuth position control system is shown in Figure 1 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 Configuration 2 and 3).

The Layout Of An Antenna Azimuth Position Control ...

In this video we tried to explain the mechanism for controlling the position of the antenna by using closed loop feedback control loop. We provide the input by rotating the knob of the...

Antenna Position control with closed loop control system Lecture # 03

855.889.0092. The antenna position control system from Cross offers a key example of how our Device Under Test Positioning System can be utilized for specific applications. Antenna positioning or pointing systems require precision control to reliably and accurately hit, or track, their intended target.

Antenna Position Control System - CrossCo

Systems; Algorithms to Antenna: Modeling Air-Traffic-Control Radar Systems. Examples from the previous blog are built upon in terms of air traffic control. Here, we explore information fusion and ways to generate larger data sets to facilitate architecture decisions and improve testing.

Algorithms to Antenna: Modeling Air-Traffic-Control Radar ...

The CP controls only the antenna position (external loop) with references obtained from a text file that contains the desired positions for each time interval (sampling period, h=1s). The proposed controller for the station was a PI, due to its simplicity, large operation band and good industrial practical results.

CONTROL SYSTEM FOR SATELLITE TRACKING ANTENNA - ScienceDirect

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 PID, fuzzy logic and sliding mode controllers are performed to the system. The simulation results are compared and the most suitable control method is determined.

Antenna azimuth position control with PID, fuzzy logic and ...

In this study, an antenna azimuth position control system is controlled by using a Proportional-IntegralDerivative (PID) controller and a fuzzy logic controller (FLC) designed in Matlab/Simulink environment. [...] Key Method In order to obtain the best system response with FLC, different types of fuzzy rules and membership functions are tested.

Figure 6 from Antenna azimuth position control with ...

2012 International Symposium on Innovations in Intelligent Systems and Applications In this study, an antenna azimuth position control system is controlled by using a Proportional-IntegralDerivative (PID) controller and a fuzzy logic controller (FLC) designed in Matlab/Simulink environment.

Antenna azimuth position control with classical PID and ...

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.