

Can early warning alarm prevent damage from external forces?

(d) Analysis of simulation experiment results After running all the test sets, the method proposed in this paper can send the early warning alarm on time to prevent damage from external forces and fully meets the prede-termined target. In a total of 3000 random vehicle coordinates in ten groups, the missed Figure 12. The

Can early warning system prevent external force damage to overhead transmission lines?

The performance fully meets the design requirements in the simulation experiment environment. Conclusions. The early warning system is proposed to prevent external force damage to overhead transmission lines. According to our simulations, the system can get reliable responses based on the location of the monitored objects.

What are the four types of external force damage?

There are mainly four cases of external force damage: (i) external force damage caused by large machinery vehicles. (ii) external force damage caused by illegal buildings. (iii) sudden and seasonal external force damage. (iv) external force damage caused by excessively high trees.

How do power companies respond to external damage to overhead power lines?

In response to the threat of external damage to overhead power lines, power companies can use intelligent image recognition technology to detect abnormal objects entering the vicinity. On this basis, they also developed an intelligent response mechanism for early warning.

How many external damage accidents are caused by the power company?

80% of the total number of external damage accidents. The power company will cooperate with the traffic management department to install the positioning system and provide specific solutions for managing large mechanical vehicles.

Can video surveillance reduce external damage?

From the perspective of effectiveness, the number of external injury incidents has decreased. But in recent years, the number of external injury accidents does not decrease continuously. This shows that video surveillance cannot further reduce external damage.

This is known as thermalization loss and is a substantial problem in all single-junction solar cells due to a considerable part of the solar spectrum comprising photons with energy exceeding the semiconductor band gap. 11 Moreover, in PV designs, the effective utilization of high-energy photons is diminished due to the recombination of majority carriers ...

Aiming at the problem of high false alarm rate due to the monitoring blind area of transmission line anti

external damage early warning method, a real-time anti external damage early warning method of transmission line based on optical fiber sensing technology is proposed. The geometry of the target damaged by external force is a contour representation of the outer edge, and the ...

A technology of anti-external force damage and warning device, which is applied in the direction of alarms, electrical transmission signal systems, instruments, etc., can solve the problems of inconvenient installation and construction, limited battery life, photovoltaic panels strike, and large volume, so as to prevent accidental collision of cranes line effect

The transmission line laser external protection online monitoring device developed by our company can completely solve the problem of external force damage and anti-theft of large ...

Power cable is used more and more in the power network, and its significance to the safety and stability of the power network is increasingly prominent.

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The anti external force damage algorithm is designed to extract and locate the moving area of the external force damage target and separate it from the video background. The target movement ...

The anti external force damage algorithm is designed to extract and locate the moving area of the external force damage target and separate it from the video background. The target movement area is divided into three areas: line protection area, monitoring work area and danger warning area. According to the evaluation results, different prevention

sudden and seasonal external force damage. (iv) external force damage caused by excessively high trees [1]. At present, external damage accidents caused by natural disasters or other non-human factors are well controlled, such that the number of related accidents is decreasing year by year. However, the number of external damage accidents ...

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