

عنوان مقاله:

Assessing the Vulnerability of Geographical Regions to Potential Infrastructure Risks in the Energy Sector Through the Lens of Passive Defense

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خلاصه مقاله:

In modern times, the significance of energy sector infrastructures has significantly increased as they play a crucial role in catering to the needs of society. Ensuring land security entails prioritizing the protection of infrastructures against attacks and threats. One crucial aspect of this security provision involves evaluating the vulnerabilities of these infrastructures based on their location, which is the main focus of this research. The aim is to assess the susceptibility of the energy infrastructure in the Yazd province and determine the capacity of the territory to withstand such vulnerabilities. To achieve this, the descriptive-analytical approach was employed along with the utilization of network analysis techniques and Arc GIS software. The findings indicate that when considering passive defense, the arrangement of infrastructure in the province was not appropriately designed. In Yazd province, the central region is at a higher risk compared to the surrounding areas, resulting in over 55% of the energy network infrastructure being situated in this highly vulnerable zone. Additionally, 18% of the infrastructure also falls within this high-risk area. The significance of passive defense measures is particularly emphasized in the province.

کلمات کلیدی:

Vulnerability, Spatial Vulnerability, Energy Infrastructure, Passive Defense, Yazd Province

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