

不同负载下的复杂保障网络抗毁性仿真分析

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摘要: 现代战争中, 复杂保障网络的抗毁性成为决定战争胜负的重要因素。本文分析了复杂保障网络的特点, 把复杂保障网络抽象成一般网络, 通过建立复杂保障网络抗毁性仿真模型, 分析了复杂保障网络在不同网络负载量和不同负载分布下的网络抗毁性。

关键词: 保障网络, 复杂网络, 级联失效, 抗毁性

Invulnerability Simulation Analysis of Complex Logistics Networks with Different Loads

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Abstract: It is of great theoretical and practical significance to study the invulnerability of logistics networks, as the support ability of logistics systems becomes an important factor to the victory of modern warfare, which makes the logistics networks to be the prime attacking target. In this paper, the characteristics of logistics systems that can be treated as general networks are analyzed and an invulnerability simulation model of complex logistics networks is constructed. With loads of different quantities and distributions, the invulnerability of complex logistics networks is analyzed.

Key words: logistics networks; complex networks; cascading failure; invulnerability

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