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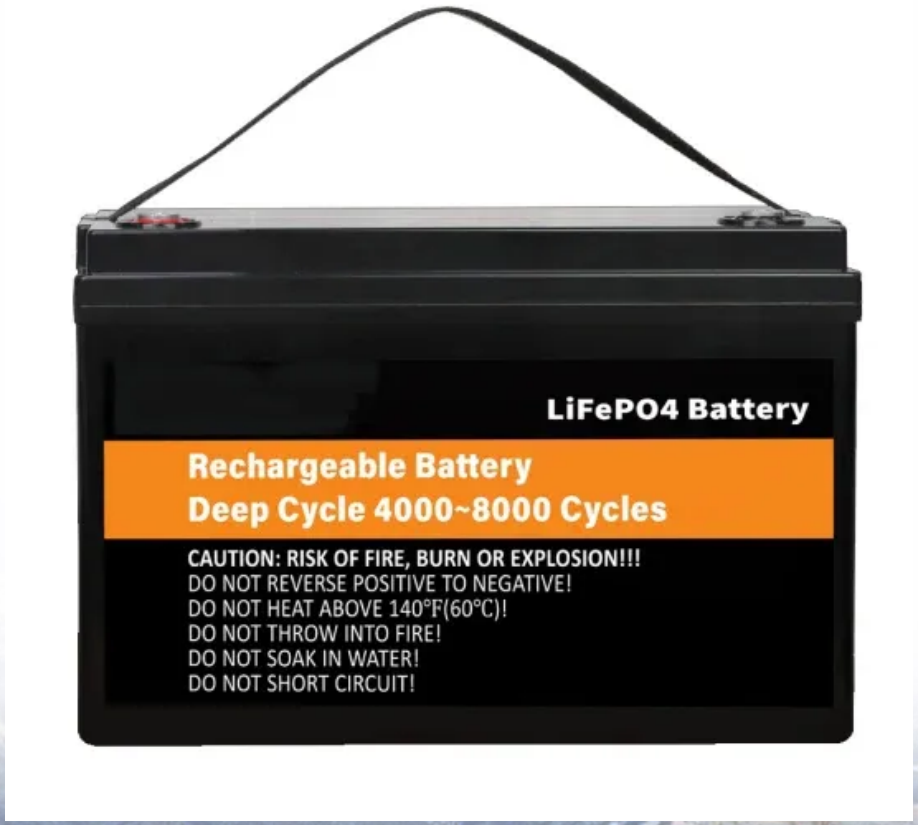
Single-phase transaction conditions for folding containers used in subway stations



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Overview

Can IDs 2 improve subway station design to meet critical safety benchmarks?

The swift evacuation in IDS 2 suggests that the design improvements effectively distributed the evacuation flow, reducing dependency on a few critical paths and thereby minimizing bottlenecks. This outcome demonstrates the framework's potential to enhance subway station design to meet critical safety benchmarks during emergencies.

Can a virtual simulation software model subway stations and evacuees' movements in disaster situations?

This study employed a virtual simulation software, Anylogic, to model subway station spaces and evacuees' movements in disaster situations. The software was used for its robust pedestrian library and functionalities to support multiple modeling methodologies.

Can network-modeling and BC analysis assess evacuation vulnerability for subway stations?

The alignment between the BC analysis and the simulation results significantly substantiates the effectiveness and utility of the proposed framework of network-modeling and BC analysis to assess evacuation vulnerability for subway stations.

Can a 3D network model assess subway evacuation risks?

Novel BC and 3D network model assess subway evacuation risks. Gwanggyo Jungang case study validates proposed framework. Framework and simulation align, confirming effectiveness. Design modifications substantially enhance evacuation efficiency. Proposes strategic improvements for subway designs for enhanced evacuability.

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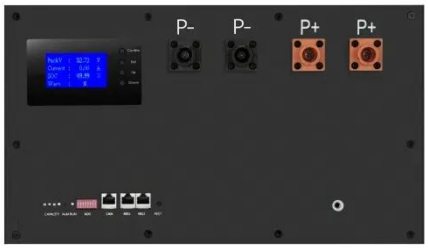

Phase transition-like behaviors of propagation of passenger ...

A key issue is that such stranding can propagate across multiple stations, forming clusters that significantly impact global service efficiency.

[2401.06828] Phase transition like behaviors of Propagation ...

The subway as the most important transportation for daily urban commuting is a typical non-equilibrium complex system, composed of 2 types of basic units with service ...

Shengda Zhao arXiv:2401.06828v1 [physics.soc-ph] 12 ...

A demand of service from a single passenger is a pair of stations depending on time called as origin-destination (OD) pairs, and on the supply side of services, subway trains ...

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The use of video recognition technology for real-time statistical classification of passenger flow is particularly difficult to implement in transfer stations due to the complexity of the streamlines, ...

Enhancing Subway Transfer Efficiency: Modeling Passenger ...

Introduction Subway transfer stations are crucial for urban transit but face challenges like overcrowding, misaligned train schedules, and inefficient designs. These ...

Research on the Mechanism of Load Transfer ...

The use of the cut-and-cover method is a prerequisite for the construction of prefabricated subway stations, and stability is a key factor ...

Assessment of impact of bottlenecks on evacuation in subway stations

These trends suggest a broader shift towards creating more resilient and adaptable evacuation plans that can

effectively respond to a wide range of emergency conditions in the ...

Passenger flow control with multi-station coordination in ...

For example, for Beijing subway, the number of stations with routine passenger flow control amounted to 65, including 58 stations in the morning and 19 stations in the evening ...

Phase transition like behaviors of Propagation of Passenger ...

The simulation results suggest that both the efficiency of subway service (as measured by passenger waiting time) and the scale of stranding demonstrate phase transition ...

Phase transition like behaviors of Propagation of Passenger

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phase transition ...

Research on the Mechanism of Load Transfer Structures in ...

The use of the cut-and-cover method is a prerequisite for the construction of prefabricated subway stations, and stability is a key factor restricting the construction of open ...

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