

# The influence of generator wind temperature on hydrogen leakage

Based on finite element method and virtual nozzle model, the influence of leakage of main equipment in hydrogenation station on the distribution of combustible hydrogen was investigated, ...

Hybrid ventilation balances effectiveness and temperature control for heavy leaks. The compactness and flexibility of hydrogen production containers make them suitable for integration in ...

This article introduces and explores the development prospects of liquid hydrogen, factors that influence its leakage in open and closed environments, safety measures and standards ...

By studying the simulation results of hydrogen leakage under different longitudinal wind speeds and leakage locations, the influence of longitudinal wind on hydrogen leakage and diffusion is ...

The effects of different external wind speeds, leakage directions, obstacle structures, and ceiling structures were compared, and the mechanism of leakage and diffusion was analyzed.

This simulation study looked at the influence of ambient conditions (wind speed, temperature, and humidity) on the hydrogen diffusion, and the effect of this on the consequences of the leak

To reveal the influence mechanisms of seasonal climatic factors (wind speed, wind direction, temperature) and leakage direction on hydrogen dispersion and explosion behavior from...

Through systematic simulations of 72 leakage scenarios (3 equipment types &#215; 4 seasons &#215; 6 leakage directions), the coupled effects of climatic conditions, equipment layout, and leakage ...

The leakage and diffusion behavior of liquid hydrogen during transportation was studied. The influence of wind speed, leakage rate, leakage time, wind temperature, ground temperature, and ...

In this study, the dynamic characteristics of hydrogen leakage and dilution from the hydrogen dispenser during the refueling of hydrogen-powered vehicles were numerically investigated ...



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