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JET FANS: MITIGATING CATASTROPHIC TUNNEL FIRES

Abstract

The earliest tunnel construction dates back approximately 4000 years, and tunneling techniques have since progressed significantly. The issue of road tunnel fires has garnered attention in literature, with many aspects still unexplored. These fires can be immensely destructive, leading to substantial human and property losses. Literature documents various experimental and numerical studies on the topic. Strikingly, smoke inhalation accounts for 70