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Altri autori (Persone)	BeardAlan (Alan N.) CarvelRichard
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Nota di contenuto	Part I: Real tunnel fires -- A history of fire incidents in tunnels -- Tunnel fire investigation I: the Channel Tunnel fire, 18 November 1996 -- Tunnel fire investigation II: the St. Gotthard Tunnel fire, 24 October 2001 -- Tunnel fire investigation III: the Burnley Tunnel fire, 23 March 2007 -- Part II: Prevention and protection -- Prevention and protection: overview -- Fire detection systems -- Passive fire protection in concrete tunnels -- Water-based fire-suppression systems for tunnels -- Tunnel ventilation: state of the art -- The use of tunnel ventilation for fire safety -- The influence of tunnel ventilation on fire behaviour -- Part III: Tunnel fire dynamics -- A history of experimental tunnel fires -- Fire dynamics in tunnels -- Heat release rates in tunnel fires: a summary -- CFD modelling of tunnel fires -- Control volume modelling of tunnel fires -- One-dimensional and multi-scale modelling of tunnel ventilation and fires -- Non-deterministic modelling and tunnel fires -- Part IV: Fire safety management and human factors -- Human behaviour during tunnel fires -- Egress behaviour during road tunnel fires -- Recommended behaviour for road tunnel users -- Transport of hazardous goods -- A systemic approach to tunnel fire safety management -- Road tunnel operation during a fire emergency -- Tunnel fire safety and the law -- Part V: Emergency procedures -- Emergency procedures in road tunnels -- Emergency procedures in rail tunnels -- Fire and rescue operations in tunnel fires: a discussion of

some practical issues -- Part VI: Tunnel fire safety decision-making -- Problems with using models for fire safety -- Decision-making and risk assessment -- Part VII: Specific topics -- The UPTUN project: a brief summary -- The River Tyne road tunnels and fixed fire suppression -- Hydrogen-powered cars and tunnel safety -- Index.

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**Sommario/riassunto**

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Following catastrophic fires that have occurred worldwide, it has become essential to gain a much better understanding of all aspects of tunnel fire safety, from basic science to acceptable risk and the law.

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