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~~Systems discussed in the handbook include those for stairwell pressurization, elevator pressurization, zoned smoke control, and atrium smoke control. This is the first smoke control book with climatic data so that users will have easy-to-use weather data specifically for smoke control design for locations in the U.S., Canada, and throughout the world.~~

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~~Handbook of Smoke Control Engineering. Table 1.9: Thermal Properties of Solid Materials in I-P Units Density, lb/ft<sup>3</sup>. Specific Heat Cp, Btu/lbF. Thermal Conductivity k, Btu/hftF. Thermal Inertia kC, 2 Btu /ft<sup>4</sup>hF. Aluminum (pure) 169. 0.21. 119. 4300. Steel (0.5% carbon) 490. 0.11. 31. 1700. Copper (pure) 558. 0.091. 169. 8490. Material. Concrete. 150. 0.18. 0.92. 25. Brick. 162. 0.19. 0.46. 14. Glass, plate. 169. 0.19~~

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Written by an engineer for engineers, this book is both training manual and on-going reference, bringing together all the different facets of the complex processes that must be in place to minimize the risk to people, plant and the environment from fires, explosions, vapour releases and oil spills. Fully compliant with international regulatory requirements, relatively compact but comprehensive in its coverage, engineers, safety professionals and concerned company management will buy this book to capitalize on the author ' s life-long expertise. This is the only book focusing specifically on oil and gas and related chemical facilities. This new edition includes updates on management practices, lessons learned from recent incidents, and new material on chemical processes, hazards and risk reviews (e.g. CHAZOP). Latest technology on fireproofing, fire and gas detection systems and applications is also covered. An introductory chapter on the philosophy of protection principles along with fundamental background material on the properties of the chemicals concerned and their behaviours under industrial conditions, combined with a detailed section on modern risk analysis techniques makes this book essential reading for students and professionals following Industrial Safety, Chemical Process Safety and Fire Protection Engineering courses. A practical, results-oriented manual for practicing engineers, bringing protection principles and chemistry together with modern risk analysis techniques Specific focus on oil and gas and related chemical facilities, making it comprehensive and compact Includes the latest best practice guidance, as well as lessons learned from recent incidents

Revised and significantly expanded, the fifth edition of this classic work offers both new and substantially updated information. As the definitive reference on fire protection engineering, this book provides thorough treatment of the current best practices in fire protection engineering and performance-based fire safety. Over 130 eminent fire engineers and researchers contributed chapters to the book, representing universities and professional organizations around the world. It remains the indispensable source for reliable coverage of fire safety engineering fundamentals, fire dynamics, hazard calculations, fire risk analysis, modeling and more. With seventeen new chapters and over 1,800 figures, the this new edition contains: Step-by-step equations that explain engineering calculations Comprehensive revision of the coverage of human behavior in fire, including several new chapters on egress system design, occupant evacuation scenarios, combustion toxicity and data for human behavior analysis Revised fundamental chapters for a stronger sense of context Added chapters on fire protection system selection and design, including selection of fire safety systems, system activation and controls and CO2 extinguishing systems Recent advances in fire resistance design Addition of new chapters on industrial fire protection, including vapor clouds, effects of thermal radiation on people, BLEVEs, dust explosions and gas and vapor explosions New chapters on fire load density, curtain walls, wildland fires and vehicle tunnels Essential reference appendices on conversion factors, thermophysical property data, fuel properties and combustion data, configuration factors and piping properties " Three-volume set; not available separately "

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"TRB's National Cooperative Highway Research Program (NCHRP) Research Report 836: Guidelines for Emergency Ventilation Smoke Control in Roadway Tunnels presents guidelines for ventilation in roadway tunnels to facilitate human evacuation and emergency responder safety. These guidelines consider tunnel geometrics such as tunnel altitude; physical dimensions (i.e., length, cross section); type of traffic flow (i.e., single or bi-directional flow); and fan utilization and placement. They also consider cargo types and quantities as they pertain to fire heat release rates (FHRRs) and ventilation requirements. The guidelines determine the effects of ventilation on tunnel fires including fire size, and the interaction of firefighting and ventilation system operation. " -- Publisher description

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