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what is good for fighting fires is not always good for the environment in the case of halons their long atmospheric lifetimes and high ozone destruction potential makes them extremely damaging to the stratospheric ozone layer which protects humans animals and plants from the damaging effects of ultraviolet solar radiation developing countries face the challenge of ensuring effective fire protection while at the same time eliminating their reliance on halons this publication presents case studies that show how different organizations and countries have successfully approached and addressed various aspects of halon management the report demonstrates that the analytic hierarchy process ahp is a promising decision tool for evaluating fire protection systems for homeowners it lays the ground for development of specialized computer software for applying the ahp to decisions of individual homeowners unlike conventional methods of economic analysis the ahp integrates quantifiable and qualitative variables the study explores how to include in the decision making process information on an individual s risk exposure and risk attitude information which is generally difficult or impossible to quantify by differentiating between risk exposure and risk attitude this application goes beyond the ahp s conventional treatment of risk the ahp is applied to

the choice of purchasing smoke detectors a sprinkler system or a combination of the two two hypothetical cases are assumed one in which the homeowner is risk taking and has lower than average risk exposure and one in which the homeowner is risk averse and has higher than average risk exposure subjective probabilities of fire death injury and property loss are merged with more easily quantifiable benefit and cost criteria a method of pairwise comparisons provides the data to calculate priority vectors for the fire protection alternatives this reference is designed to give you a working knowledge of fire protection in new construction and remodeling you are guided through every phase of systems design installation and performance with over 80 illustrations of system configurations you see how to trouble shoot engineering plans systems selection components installation work how to comply with codes and standards each section is aimed at helping you see the big picture as well as the vital details which can make or break the fire protection segment of the project whatever your professional role architect engineer contractor facilities manager you ll benefit from the author s expert advice the fundamental purpose of this handbook is to raise awareness about environmental impacts of fire and fire suppression primarily within the fire engineering and firefighting communities but also within the environmental engineering and planning disciplines the handbook provides readers with a fundamental understanding of the problem and its magnitude and includes a set of tools and methods for assessing environmental social and financial impacts and a set of tools for identifying and selecting appropriate mitigation options the emergence of large fires of long duration also known as

siege fires with their inherently high costs has raised numerous questions about the opportunities for cost containment cost reviews from the 2003 fire season have revealed how additional knowledge created through research can lead to better management and lower costs of fire incidents

Fire Suppression Substitutes and Alternatives to Halon for U.S. Navy Applications

1997-05-28 what is good for fighting fires is not always good for the environment in the case of halons their long atmospheric lifetimes and high ozone destruction potential makes them extremely damaging to the stratospheric ozone layer which protects humans animals and plants from the damaging effects of ultraviolet solar radiation developing countries face the challenge of ensuring effective fire protection while at the same time eliminating their reliance on halons this publication presents case studies that show how different organizations and countries have successfully approached and addressed various aspects of halon management

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Shasta-Trinity National Forest (N.F.), Klamath National Forest (N.F.), Six Rivers National Forest (N.F.), Trinity Alps Wilderness Plan, Humboldt County, Siskiyou County, Trinity County 1995 the fundamental purpose of this handbook is to raise awareness about environmental impacts of fire and fire suppression primarily within the fire engineering and firefighting communities but also within the environmental engineering and planning disciplines the handbook provides readers with a fundamental understanding of the problem and its magnitude and includes a set of tools and methods for assessing

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NFPA 2001 2004 the emergence of large fires of long duration also known as siege fires with their inherently high costs has raised numerous questions about the opportunities for cost containment cost reviews from the 2003 fire season have revealed how additional knowledge created through research can lead to better management and lower costs of fire incidents

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