



Enclosure Fire Dynamics (Environmental & Energy Engineering)

Bjorn Karlsson, James Quintiere

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The increasing complexity of technological solutions to both fire safety design issues and fire safety regulations demand higher levels of training and continuing education for fire protection engineers.

Historical precedents on how to deal with fire hazards in new or unusual buildings are seldom available, and new performance-based building codes often require mathematical or computer fire modeling. Until now, however, there has been no current, truly comprehensive engineering book that builds an in-depth understanding of the scientific aspects of enclosure fires.

Enclosure Fire Dynamics fills this void with a complete description of enclosure fires and how the outbreak of a fire in a compartment causes changes in the environment. The authors-both internationally renowned experts in fire safety and protection engineering-offer a clear presentation of the dominant mechanisms controlling enclosure fires and develop simple analytical relationships useful in designing buildings for fire safety. They show readers how to derive engineering equations from first principles, stating the assumptions clearly and showing how the resulting equations compare to experimental data.

The details and the approach offered by this text provide readers with a confidence in-and the applicability of-a wide range of commonly used engineering equations and models. Enclosure Fire Dynamics will enhance the knowledge of professional fire protection engineers, researchers, and investigators and help build a strong foundation for engineering students.

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