



Introduction to Mathematical Fire Modeling, Second Edition

By Marc L. Janssens

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Computer simulation proves to be a valuable tool for the analysis and prediction of compartment fires. With the proper understanding and software, fire safety professionals can use modeling tools and methods to find answers to many critical questions relating to the prevention, investigation, and reconstruction of compartment fires.

Thoroughly updated and revised, An Introduction to Mathematical Fire Modeling, Second Edition introduces the concepts, software, and techniques of computer-aided mathematical modeling and the software for the analysis and prediction of a variety of compartment fires. Beginning with basic compartment fire theory, the author develops a simple mathematical model that provides an engineering approximation of the time-varying conditions created by fires in an enclosure that may be subject to hot-layer vents.

This is the first book focused on the deterministic computer modeling of compartment fires, and the FIRM model presented is the first fire model to be documented, validated, verified, and evaluated according to ASTM guidelines. The text includes detailed information on the use of the QBASIC software provided on an enclosed CD-ROM.

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- Published on: 2000-07-14
- Released on: 2000-07-14
- Format: Kindle eBook

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