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inspection, testing,  
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maintains fire  
protection  
systems. Fire  
marshals and plan  
review authorities  
that have the  
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*reviewing and  
accepting plans  
and hydraulic  
calculations for  
standpipe systems  
are also an  
important  
audience, as are  
firefighters who  
actually use  
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*while enabling  
users to better  
understand the  
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chapter details a  
particular process,  
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the equipment  
used, the range of  
materials utilized  
in the process,***



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since grown  
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as the first highly***

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*successful text,  
but has been  
updated with the  
latest research  
results. Fire  
processes are  
discussed and  
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of the mechanisms  
of heat transfer  
and fluid flow.  
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***can lead to  
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fire science and  
fire dynamics and  
provides the  
scientific  
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necessary for the  
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for all those  
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wide ranging field,  
from Fire  
Prevention  
Officers to  
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risk assessment,  
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will also be of  
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chapters thus  
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(NFPA)  
documents. In  
an effort to

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**assess and  
further define  
NFPA's position  
in the realm of  
resiliency,  
this brief  
identifies  
those  
provisions in  
NFPA codes and  
standards that  
embody the  
concepts of**

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resiliency.  
Additionally,  
the brief  
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NFPA-centric  
definition of  
resiliency and  
compiles  
available  
information to  
serve as a  
technical  
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multiple  
resiliency  
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**engineers and  
professionals  
who handle  
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provides a  
thorough  
overview of  
resiliency  
concepts and  
how NFPA  
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strive to meet  
recommended  
standards.

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covers the four  
forms of fire:  
diffusion  
flames,  
smoldering,  
spontaneous  
combustion, and  
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flames. Using a

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transfer,  
ignition, flame  
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fire-technical  
properties of  
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findings may be  
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which makes the  
application of  
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materials in

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**buildings  
possible, while  
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Wood burning  
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has its own  
specific  
features,  
therefore, the  
fire protection  
technologies  
need to be  
updated  
regularly. It  
also includes  
the issue of  
the

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of ignition,"  
containing  
extensive  
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individual  
materials,



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fires" to  
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database tables  
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information on  
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chemical  
compounds and  
over 500**

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commercial or  
natural  
products,  
including such  
substances as  
dusts, fuels,  
lubricants,  
plastics, and  
woods."

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effectiveness  
of currently  
available  
methodologies  
for fire flow.  
It explains the  
water supply  
requirements  
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including rate  
of flow, the  
residual  
pressure  
required at  
that flow, and  
the duration  
that is  
necessary to  
control a major  
fire in a  
specific  
structure.

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**First reviewing  
existing fire  
flow  
calculation  
methodologies  
in the U.S. and  
globally, the  
authors  
determine the  
new information  
necessary to  
validate the  
existing fire**

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**flow  
calculation  
methodologies.**

**After  
identifying 19  
methods from  
the U.S., UK,  
France,  
Germany, the  
Netherlands,  
New England,  
and Canada, two  
types of**

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methods are  
evaluated:

those for  
building  
planning based  
on fire and  
building code  
requirements,  
and those for  
on-scene fire  
service use.

Building  
planning



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methods are also examined, including an explanation of the range of building variables that determine fire flow. A survey form for fire departments is provided to help fire

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departments  
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identify key  
predictive  
features based  
on construction  
and building  
parameters.  
Researchers and  
professionals  
in fire  
engineering  
will find the  
recommendations

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consistent scientific*

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*background to  
engineering  
calculation methods  
applicable to analyses  
of materials reaction-  
to-fire, as well as fire  
resistance of  
structures. Several  
new and unique  
formulas and  
diagrams which  
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measurements of  
temperature with  
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are thoroughly  
explained. Also*



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*modeling*

*compartment fires,  
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simple and accurate  
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both pre- and post-  
flashover fires. The  
final chapters deal  
with temperature  
calculations in steel,*

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included, and several  
examples demonstrate  
how the finite  
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*of the flow boiling  
heat transfer,*

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of expanding  
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*Results obtained from  
the different  
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*presented for comparison and addition to that, comparison with literatures is also performed. Finally, parametric studies are performed and presented in the brief. The findings from this study could help in understanding the*

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*complex microscale  
flow boiling behavior  
and aid in the design  
and implementation  
of reliable compact  
heat sinks for  
practical applications.  
Although municipal  
firefighters respond  
on a daily basis to  
industrial fires or  
emergencies, even the*

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*largest fire departments often focus most of their training and attention to structural or wildland firefighting. It is increasingly probable that municipal firefighters will be called to an industrial incident due to a fire or*

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*terrorist event. The  
authors have written  
this book to*

*specifically prepare  
the municipal*

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*responses to a wide  
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*fires, where the*

*situation will be*

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authorities. The  
public benefits  
from consistent  
understanding of  
the factors that

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influence the responses and behaviors of people when threatened by fire and the application of reliable methodologies to evaluate and estimate human response in buildings and structures. This



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Guide also aims to lessen the uncertainties in the "people components" of fire safety and allow for more refined analysis with less reliance on arbitrary safety factors. As with fire science in general, our

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knowledge of  
human behavior  
in fire is  
growing, but is  
still  
characterized by  
uncertainties  
that are  
traceable to  
both limitation  
in the science  
and  
unfamiliarity by  
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and uncertainty  
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consideration  
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Handbook of Polypropylene. My reluctance was due to the fact that my former book [1] along with that of Moore [2], issued in the meantime, seemed to cover the information demand on polypropylene and related systems.

Encour aged,

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however, by some colleagues (the new generation of scientists and engineers needs a good reference book with easy information retrieval, and the development with metallocene catalysts deserves a new update!), I started on this venture. Having some experience with

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polypropylene systems and being aware of the current literature, it was easy to settle the titles for the book chapters and also to select and approach the most suitable potential contributors. Fortunately, many of my first-choice authors accepted the invitation to

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contribute. Like all editors of multi-author volumes, I recognize that obtaining contributors follows an S-type curve of asymptotic saturation when the number of willing contributors is plotted as a function of time. The saturation point is, however, never



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reached and as a consequence, Dear Reader, you will also find some topics of some relevance which are not explicitly treated in this book (but, believe me, I have considered them).

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