

# **HEAT TRANSFER IN FIRES: thermophysics, social aspects, economic impact**

**EDITOR:  
PERRY L. BLACKSHEAR**

The volume is an extremely well-organized and comprehensive survey of the fire problem. The text begins at an elementary level but progresses at a proper pace to more advanced topics. A large number of up-to-date references is involved so that the reader can pursue particular aspects in greater detail.

The book should be viewed as a standard text for anyone in the fire technology field.

The immensity of social and economic reasons for concern about fires is dealt with in Part I of the text. The agricultural (forest fire) problem is described in a special chapter.

New materials and their effect on fire risks are thoroughly handled in conjunction with the classification of fires.

Heat and mass transfer in fires, fuel geometry, combustion, kinetics, radiative problems and parameters are covered and discussed in considerable detail.

The book will be of interest to:

- chemical engineers
- civil engineers
- mechanical engineers

*(Continued on inside back flap)*

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# Heat Transfer In Fires Thermo Physics Social Aspects Economic Impact

**Roman Wölfel**



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NBS Special Publication Margaret A. Sherald, 1968 **Heat Transfer in Fires: Thermophysics. Social Aspects. Economic Impact. (Stichworte Teil 1)** P. L. Blackshear, 1974 **Firesafety Systems Analysis for Residential Occupancies: Technical supplement** United States. Department of Housing and Urban Development. Office of Policy Development and Research, National Fire Protection Association, 1977 **Firesafety Systems Analysis for Residential Occupancies** United States. Department of Housing and Urban Development. Office of Policy Development and Research, 1977 **Combustion Theory** Forman A. Williams, 2018-03-05 Combustion Theory delves deeper into the science of combustion than most other texts and gives insight into combustions from a molecular and a continuum point of view The book presents derivations of the basic equations of combustion theory and contains appendices on the background of subjects of thermodynamics chemical kinetics fluid dynamics and transport processes Diffusion flames reactions in flows with negligible transport and the theory of pre mixed flames are treated as are detonation phenomena the combustion of solid propellants and ignition extinction and flammability phenomena **Design of Buildings for Fire Safety** E. E. Smith, 1979

**Forest Fires** Edward A. Johnson, 2001-03-01 Even before the myth of Prometheus fire played a crucial ecological role around the world Numerous plant communities depend on fire to generate species diversity in both time and space Without fire such ecosystems would become sterile monocultures Recent efforts to prohibit fire in fire dependent communities have contributed to more intense and more damaging fires For these reasons foresters ecologists land managers geographers and environmental scientists are interested in the behavior and ecological effects of fires This book will be the first to focus on the chemistry and physics of fire as it relates to the ways in which fire behaves and the impacts it has on ecosystem function Leading international contributors have been recruited by the editors to prepare a didactic text reference that will appeal to both advanced students and practicing professionals *Fire Safety Science* Cecile Grant, Patrick J. Pagni, 1986 **NBS Special Publication**, 1979 **Fire Research Abstracts and Reviews**, 1974 *Heat Transfer in Nuclear Reactor Safety*

S. George Bankoff, Naim H. Afgan, 1982

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