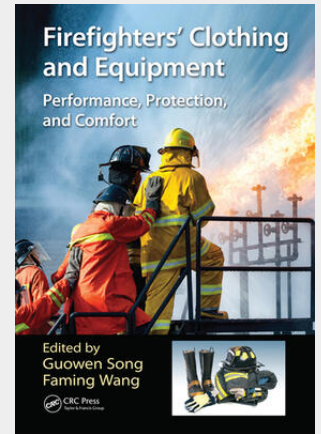


Song / Wang

## Firefighters' Clothing and Equipment

Performance, Protection, and Comfort

Protective clothing and equipment used for firefighters protect them against their harsh working environment loaded with strong thermal hazards, elevated environmental temperatures, low oxygen concentration and smoke. This book describes an in-depth review of firefighting clothing and equipment, and explicitly addresses the performance of protection and comfort in textile engineering, clothing design, and evaluation. Covered topics include protection and comfort requirements for firefighting clothing and equipment, testing methods, standards and performance evaluation, smart firefighting clothing for first responders and numerical modeling of performance of firefighting clothing. Key Features - Presents complete overview about the requirements of firefighters' protective clothing/thermal protective materials - Addresses performance of protection and comfort - Includes human thermoregulation system and responses to firefighting working environment - Discusses SMART firefighting clothing and equipment - Suggests "how to improve the wear comfort?"



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