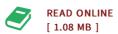# Structural Fire Resistance Experimental Research: Priority Needs of U.S. Industry (Paperback)

By Kathleen H. Almand

Springer-Verlag New York Inc., United States, 2013. Paperback. Condition: New. 2014 ed.. Language: English . Brand New Book ***** Print on Demand *****. Structural Fire Resistance Experimental Research - Priority Needs of U.S. Industry provides a synthesis of stakeholder input to a prioritized agenda for research at the National Fire Research Laboratory (NFRL) at the National Institute of Standards and Technology (NIST) designed to accelerate the implementation of performance-based fire engineering for structures. The NFRL presents a broad range of unanswered questions regarding the performance of real structures in fire conditions, and informs performance-based design methods and standards in this field. The authors conducted a comprehensive literature review of large-scale structural fire testing and compiled research needs from a variety of sources. The book addresses major issues of broad concern in the fire community, such as real fire exposure and structural response, composite floor system performance, enhancing modeling performance, and understanding the embedded safety features in design methods. It concludes with a prioritized set of research recommendations for the NIST facility. The scope of issues addressed and broad range of content make this a valuable book for researchers in all aspects of fire resistance experimentation. It will also be useful...

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