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Structural Design for Fire Safety

By Andrew H. Buchanan

John Wiley and Sons Ltd, United Kingdom, 2001. Paperback. Book Condition: New. Revised ed.. 244 x 170 mm. Language: English . Brand New Book. Presenting a comprehensive overview of the fire resistance of building structures, this key text brings together a large volume of material from many sources on this increasingly important topic. Opening with the fundamentals of fires and fire safety, the book gives an introduction to real fire exposure and the response of structures to such fires, outlining the important contribution of structural fire resistance to overall fire safety. Methods of calculating fire severity and achieving fire resistance are described, including fire performance of the main structural materials including structural steel, reinforced concrete and timber construction. Particularly valuable elements of the book are its design sections (incorporating international methods), where the earlier material is synthesised and recommendations are made for rational design of building structures exposed to fires. Structural Design for Fire Safety provides expert guidance on: interpreting code requirements for fire safety understanding the concepts of fire severity and fire resistance estimating time-temperature curves for fully developed compartment fires understanding the behaviour of structural elements and buildings exposed to fires designing steel, concrete and timber structures to...



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