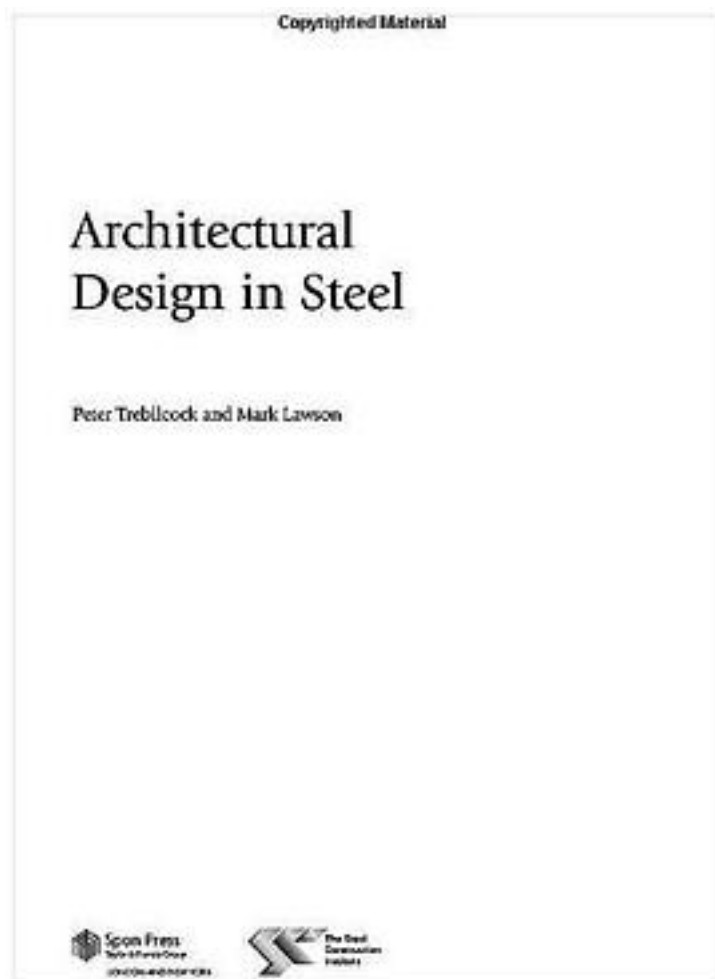


# Architectural Design in Steel



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Steelwork offers the opportunity for architectural expression, as well as being a structurally versatile and adaptable material. Good detailing is vital because it affects

structural performance, costs, buildability and, perhaps most importantly, appearance. Whilst the choice of the structural form is often the province of the structural engineer, architects should have a broad appreciation of the factors leading to the selection of the structure and its details. Traditionally, most detailing of connections is the responsibility of the steelwork fabricator, but for exposed steelwork, detailing is of much more interest to the architect, as it impacts on the aesthetics of the structure. In this respect it is important that designers appreciate the common fabrication and erection techniques which may exert a strong influence on the method and approach to the detailing of modern steelwork in buildings. Architectural Design in Steel is a design guide to the detailing of exposed steelwork in buildings. It is a guide which offers technical guidance and general principles, as well as examples of best practice. It covers all aspects from manufacture to detailing, specification of finishes and fabrication, providing architects, as well as engineers, with essential information to inform the design. This publication covers all aspects of the architectural uses of steel in internal and external applications. The different types of structural members, frames and their connections are identified and common details are presented. Examples of expressive use of steel are presented, including arches, tension structures, masts and glazing support systems. Connections between members, especially tubular connectors and cast steel nodes are covered in detail. Technical information is provided on fire and corrosion protection, and penetrations through the building envelope. Reference is also made to other publications for more detailed guidance.

作者介绍:

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