



Structures and Construction in Historic Building Conservation

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This book is the second in a series of volumes that combine conservation philosophy in the built environment with knowledge of traditional materials, and structural and constructional conservation techniques and technology:

- Understanding Historic Building Conservation
- Structures & Construction in Historic Building Conservation
- Materials & Skills for Historic Building Conservation

The series aims to introduce each aspect of conservation and to provide concise, basic and up-to-date knowledge for architects, surveyors and engineers as well as for commissioning client bodies, managers and advisors.

In each book, Michael Forsyth draws together chapters by leading architects, structural engineers and related professionals to reflect the interdisciplinary nature of conservation work. The books are structured to be of direct practical application, taking the reader through the process of historic building conservation and emphasising throughout the integrative teamwork involved.

This present volume – *Structures & Construction in Historic Building Conservation* - traces the history of structures in various materials and contains guidance on the survey, assessment and diagnosis of structures and the integration of building code requirements within the historic fabric.

It discusses conservation engineering philosophy, exposes the conflict between building codes and conservation legislation, and offers solutions. Leading-edge, on-site metric survey techniques are described and a range of structural advice is given, including methods of repair in relation to philosophical principles. Causes of induced movement in historic buildings are explained, together with basic soil mechanics and the assessment and diagnosis of structural failure. Chapters also cover the conservation of different types of construction: masonry, iron and steel, and concrete and reinforced concrete.

Fourteen chapters written by the experts present today's key issues in structures and construction for historic building conservation: Bill Blake, Michael Bussell, David Cook, Dina F. D'Ayala, Steve Emery, Michael Forsyth, Ian Hume, Peter Norris

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