STRUCTURAL MASONRY

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Structural Masonry

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Second Edition

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PREFACE TO FIRST EDITION

The first edition of this book, written some ten years ago, was devoted to Structural Brickwork and had the aim of reviewing the principles underlying the use of that form of construction in Structural Engineering. A considerable amount of research data was then available and this has been considerably extended during the past decade. The structural use of blockwork has also been greatly developed over this period and there has been a general drawing together of research interest in both brickwork and blockwork, to the great advantage of both materials. Having regard to this tendency, the contents of the original book have been updated and the coverage extended to include reference to blockwork as well as brickwork. Additional chapters have been added dealing with masonry arches and testing methods, both topics which have become of wide interest in recent years.

Although a large number of references to source material have been included, they by no means encompass the entire literature on Structural Masonry. It is hoped, however, that the text will be an adequate guide to the subject and that it will enable readers who require more detailed information to follow up their particular problem in the literature. Particular attention is drawn to the proceedings of the series of *International Brick and Block Masonry Conferences*, the *Journal and Proceedings of the British Masonry Society*, and the *Proceedings of the North American and the Canadian Masonry Conferences*. Together these publications form a veritable mine of research and practical information.

This book is addressed not only to research workers and students but also to practising engineers who may require background information to assist them in using structural masonry codes of practice which are becoming increasingly sophisticated as knowledge of the subject increases.

I would again express my indebtedness to the very numerous authors on whose work I have drawn in writing this book. I also wish to offer my sincere thanks to my former research students who have contributed greatly to the subject. Masonry research is not a field which readily attracts large

sums of money and I would therefore express my thanks to the brick industry in Britain, and in particular to the Brick Development Association, for its support over the years. Finally, I am grateful to my colleagues in many countries of the world for their friendship and encouragement in pursuing my work in structural masonry.

Edinburgh, 1989

Arnold W. Hendry

PREFACE TO SECOND EDITION

The content of *Structural Masonry* has been revised to take account of research results which have been published in the decade or so since the first edition was prepared. New sections have been added on movement and durability, and on non-destructive testing.

In recent years structural design in masonry has become increasingly sophisticated and the related codes of practice correspondingly more complex. This is illustrated by the recently published draft European code of practice on the Design of Masonry Structures which in due course will become Eurocode 6. For effective use of this and similar codes, a sound understanding of the underlying principles is essential and it is hoped that this book will be of assistance in this direction. The more general intention of providing a source or guide book to the literature for research workers and others of course remains.

Attention is again directed to the proceedings of the various national and international conferences on masonry which between them now take place more or less annually. The *Journal of the British Masonry Society*, *Masonry International*, and the *Journal of the Masonry Society (USA)* continue to be important sources of information on all aspects of masonry construction.

Edinburgh, 1997

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