

# Masonry Structures: Behaviour and Design

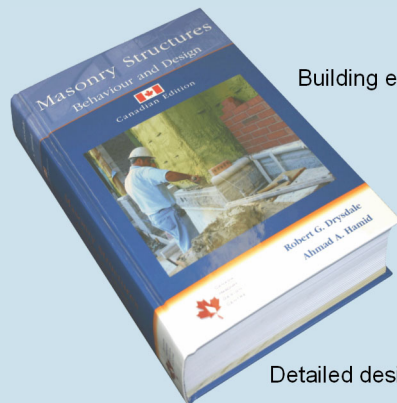
Canadian Edition

## TEXTBOOK ORDER FORM

This book was written for the Canadian Design and Construction markets to aid in the effective use of masonry as a modern form of construction. It is intended for use by senior undergraduate students, graduate students, and practicing designers. The majority of the content relates to structural applications, but there is substantial information related to planning, building materials, the building envelope, and construction that is of direct interest to architects and builders. Those familiar with basic reinforced concrete design may more readily understand the material related to structural design content.

This comprehensive coverage of masonry extends from ancient forms of construction to current usage. It provides a broad introduction to design involving planning, materials science, structural design with explanation of design load requirements, building envelope design, and construction related issues. This fundamental behaviour of masonry is covered in this textbook and is the basis upon which design in accordance with CSA S304.1-04 "Design of Masonry Structures" is introduced. A copy of the CSA S304.1-04 Standard is included at the back of the book. The authors' extensive and detailed involvement with writing of this and other referenced CSA masonry standards provides unique insight into how they are applied. Applications are further explained with the aid of detailed design examples.

To reflect the significant changes to the seismic provisions of the National Building Code of Canada, this textbook has extensive coverage on effective design for the increased seismic loading.



**Topics include:**  
Ancient masonry construction  
Modern usages of masonry  
Building design including loading requirements  
Building envelope design for fire, acoustic, thermal and moisture considerations  
Masonry materials  
Behaviour of masonry assemblages  
Reinforced beams and lintels  
Flexural walls and arching  
Walls under axial load and out-of-plane loading  
Columns and pilasters  
Shear walls  
Infill walls and partitions  
Masonry veneer and cavity walls  
Construction considerations  
Design methods for single-storey and multistorey buildings  
Detailed design examples of a single-storey and a ten-storey load bearing building

## ORDER INFORMATION

Item: "Masonry Structures: Behaviour and Design" (Canadian Edition)

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