



# Concrete and Masonry Movements

*By Jeffrey Brooks*

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Widely used in the construction of bridges, dams and pavements, concrete and masonry are two of the world's most utilized construction materials. However, many engineers lack a proper understanding of the methods for predicting and mitigating their movements within a structure. **Concrete and Masonry Movements** provides practical methods for predicting and preventing movement in concrete and masonry, saving time and money in retrofitting and repair cost. With this book in hand, engineers will discover new prediction models for masonry such as: irreversible moisture expansion of clay bricks, elasticity, creep and shrinkage. In addition, the book provides up-to-date information on the codes of practice.

- Provides mathematical modelling tools for predicting movement in masonry
- Up-to-date knowledge of codes of practice methods
- Clearly explains the factors influencing all types of concrete and masonry movement
- Fully worked out examples and set problems are included at the end of each chapter

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### Editorial Review

From the Back Cover

Based on over 30 years of experience in the field of construction materials, **Concrete and Masonry Movement** brings together the tools and methods to predict the mitigate movement in concrete and masonry in structures. With this book in hand, engineers will discover new prediction methods for common movement problems such as: irreversible moisture expansion of clay bricks, elasticity, creep and shrinkage. The book's applied approach begins with an explanation of the factors influencing all types of concrete and masonry movement. Practical methods for determining the effects of chemical and mineral admixtures, and recycled aggregates on elasticity, shrinkage and creep of concrete are also discussed. New prediction mathematical models are presented for masonry movements such as: irreversible moisture expansion of clay bricks, elasticity, creep and shrinkage of all types of masonry. The role of cryptoflorescence in movement of clay brickwork is fully explained and accounted in prediction. **Concrete and Masonry Movement** includes all the latest Codes of Practice methods al compared with new models using fully worked examples. Effects of movements, remedies and design recommendations are highlighted. The book has lists of comprehensive references at the end of each chapter and is therefore a valuable and unique reference book for all research students and engineers.

### About the Author

Jeffrey J. Brooks, BSc; PhD; FIMS. Retired. Formerly Senior Lectures & Director of Postgraduate Studies in Civil Engineering at Leeds University. Has over 30 years of experience with over 150 papers as well as several textbooks.

### Users Review

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