



Concrete Structures: Stresses and Deformations: Analysis and Design for Serviceability, Third Edition

A. Ghali, R. Favre, M. Elbadry

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Concrete structures must be designed not only to be safe against failure but also to perform satisfactorily in use. This book is written for practising engineers and students, and focuses on design methods for checking deflections and cracking which can affect the serviceability of reinforced and prestressed concrete structures. The authors present accurate and easy-to-apply methods of analysing immediate and long-term stresses and deformations. These methods allow designers to account for variations of concrete properties from project to project and from country to country, making the book universally applicable.

Comprehensively updated, this third edition of Concrete Structures also includes four new chapters covering such topics as: non-linear analysis of plane frames, design for serviceability of prestressed concrete, serviceability of members reinforced with fibre polymer bars, and the analysis of time-dependent internal forces with linear computer programs that are routinely used by structural designers. A website accompanies the book, featuring three design calculation programs related to stresses in cracked sections, creep coefficients and time-dependent analysis.

The book contains numerous examples, some of which are worked out in the SI units and others in the Imperial units. The input data and the main results are given in both SI and Imperial units. The book is not tied to any specific code, although the latest American and European codes of practice are covered in the appendices.

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