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Eurocode-Compliant Seismic Analysis and Design of R/C Buildings: Concepts, Commentary and Worked Examples with Flowcharts (Geotechnical, Geological and Earthquake Engineering)

Ioannis Avramidis, Asimina Athanatopoulou, Konstantinos Morfidis, Anastasios Sextos, Agathoklis Giaralis

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This book aims to serve as an essential reference to facilitate civil engineers involved in the design of new conventional (ordinary) reinforced concrete (R/C) buildings regulated
by the current European EC8 (EN 1998-1:2004) and EC2 (EN 1992-1-1:2004) codes
of practice. The book provides unique step-by-step flowcharts which take the reader
through all the required operations, calculations, and verification checks prescribed by
the EC8 provisions. These flowcharts are complemented by comprehensive discussions
and practical explanatory comments on critical aspects of the EC8 code-regulated
procedure for the earthquake resistant design of R/C buildings. Further, detailed
analysis and design examples of typical multi-storey three-dimensional R/C buildings
are included to illustrate the required steps for achieving designs of real-life structures which comply with the current EC8 provisions. These examples can be readily used as verification tutorials to check the reliability of custom-made computer programs and of commercial Finite Element software developed/used for the design of earthquake
resistant R/C buildings complying with the EC8 (EN 1998-1:2004) code.
Th
is book will be of interest to practitioners working in consulting and designing
engineering companies and to advanced undergraduate and postgraduate level civil
engineering students attending cours
es and curricula in the earthquake resistant design
of structures and/or undertaking pertinent design projects.

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