



METADATA

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Abstract

This textbook refers to the seismic design of reinforced concrete structures using the new legal framework of Eurocode 8 and 2, which is about to replace the existing Greek regulations, in particular the Greek Earthquake Regulation (EAK) and the Greek Reinforced Concrete Regulation (EKOS), respectively, which were adopted in 2000. This is a textbook which is related to a subject of particular importance as seismic engineering is one of the core subjects of the Greek Polytechnics due to the significant seismicity that characterizes our country. This book seeks in an

interactive way to familiarize the students and every reader with the concepts of seismic design of concrete structures with emphasis on high-rise buildings which constitute the majority of the structural fabric. An important element concerning the subject matter of the textbook is the very detailed numerical examples of application that it includes as well as the extensive commentary on each step of the analysis and dimensioning of structures. It is considered that no similar textbook is currently available in both conventional and electronic-interactive formats.

