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Structural engineers must focus on a structure's continued safety throughout its service life. Reinforced Concrete Structural Reliability covers the methods that enable engineers to keep structures reliable during all project phases, and presents a practical exploration of up-to-date techniques for predicting the lifetime of a structure. The book also helps readers understand where the safety factors used come from and addresses the problems that arise from deviation from these factors.

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Durability of reinforced concrete (RC) structures is affected by certain environmental conditions and operational actions which can reduce their lifetime significantly. Among these actions, this paper proposes a stochastic model that accounts for the combined effects of chloride-induced corrosion, climate change and cyclic loading.

Reliability of Reinforced Concrete Structures Subjected to ...
The problem under examination here, is the reliability of an ordinary reinforced concrete slab subjected to a certain level of explosion. The slab is designed according to BS 8110 [1], and is anticipated to behave as a flexural member. The blast loading is generated by an explosion at some distance above the slab.

Reliability analysis of reinforced concrete slabs under ...
For the reinforced concrete building considered in this study, it was found that significant variations exist between all the considered reliability methodologies. The full coupled importance sampling method is recommended, but the first order reliability method applied on a surface response model can be used with good accuracy.

Reliability Analysis of Reinforced Concrete Buildings ...
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Reinforced Concrete Structural Reliability
Modelling of reinforced concrete (RC) structures for reliability analysis purposes is a challenging task, for which in many cases only numerical solutions are available.

RELIABILITY ANALYSIS OF REINFORCED CONCRETE BEAMS USING ...
Reliability-based Structural Safety Evaluation of Reinforced Concrete Members Daewon Seo*1, Sungwoo Shin2 and Byumseok Han3 1 Research Professor, Sustainable Building Research Center, Hanyang University, Korea 2 Professor, School of Architecture and Architectural Engineering, Hanyang University, Korea

Reliability-based Structural Safety Evaluation of ...
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Reinforced Concrete Detailing (RCD) | Structural ...
The durability design of reinforced concrete structures has been recently introduced in national and international regulations. It is required that structures are designed to preserve their characteristics during the service life, avoiding premature failure and the need of extraordinary maintenance and restoration works. Considerable efforts have therefore made in the last decades in order to define useful models describing the degradation processes affecting reinforced concrete structures, to b

Reinforced concrete structures durability - Wikipedia
Abstract. WOS: 000339783800002In this study, a procedure for the determination of new load and resistance factors for reinforced concrete structural members is proposed in view of the fact that the design practice in Turkey has changed after the occurrence of major earthquakes.

Determination of reliabfity based new load and resistance ...
The current version of ACI Standard 318 on reinforced concrete design uses an overall resistance factor on structural action to account for uncertainty in the resistance variables. Partial resistance factors also may be used to address the different sources of variability directly; such a format may be advantageous for reinforced concrete. First-order, second-moment reliability analysis methods are used to develop partial resistance factors that are compatible with the load requirements ...

Reliability-Based Code Formulations for Reinforced ...
They consisted of 48 columns and 72 beams, and each column and beam member had six and seven elements, respectively. The reinforced concrete columns had a square cross-section with 30.5 cm (12 in.) side width. The thickness of the slab was 15.2 cm (6 in.), and beams had a reinforced concrete T section with total depth of 45.7 cm (18 in.).