

ANALYSIS OF REINFORCED CONCRETE STRUCTURES USING ANSYS NONLINEAR CONCRETE MODEL

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Key words: Reinforced Concrete, Nonlinear Analysis, Finite Element Analysis.

Abstract. *This paper considers the practical application of nonlinear models in the analysis of reinforced concrete structures. The results of some analyses performed using the reinforced concrete model of the general purpose finite element code Ansys are presented and discussed. The differences observed in the response of the same reinforced concrete beam as some variations are made in a material model that is always basically the same are emphasized. The consequences of small changes in modelling are discussed and it is shown that satisfactory results may be obtained from relatively simple and limited models.*

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