[Çağrılı Tema Sunumu - Abstract No: TDMSK001]

TWELVE GOLDEN RULES OF EARTHQUAKE RESISTANT DESIGN

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ABSTRACT:

The main purpose of this presentation is to introduce twelve golden rules of structural design, in order to achieve earthquake resistant design. These golden rules include recommendations ranging from the selection of a suitable lateral load carrying system to eliminating the vertical and horizontal structural irregularities such as torsion, soft storey, short column and pounding.

Measures of protection are supplied from heavy weight concentrations, such as bulky façade elements; massive earth fills at roofs and canopies envisaged for growing green plantations; roof level swimming pools etc. Recommendations are also supplied to take necessary measures and also to prevent soil and structural failures due to **a)** large settlements and/or liquefaction, **b)** soil amplification etc.

KEYWORDS: Golden rules, irregularities, amplification, liquefaction, short column, soft storey.