

Abstract

In recent years many patterns for determination of vulnerability and rehabilitation of building seismic specially in steel and concrete ones have been developed the point which is hidden in most of the times from the rehabilitants is the flexibility of the base soil of the building on the rehabilitation and even it's intensity and distribution of vulnerability of loading elements of the building so in this survey its been tried to study the flexibility of the support soil on rehabilitation and its effect different stages of survey are as below :

- first stage : collecting the information about different patterns of rehabilitation and different vulnerability which is handed in the conference by the author.

- second stage : finishing the approved information in the mentioned subject and the way of soil modeling .

- third stage : control and surveying of building by soft wares SAP2000 on the purpose of soil as a spring with the stiffness of K which is set translational and rotational springs and its effect on balancing the seismic power on the structural elements of the building .

In this survey ; we have used soil modeling as the springs with stiffness of K and its effect in consuming of seismic energy for different ratios of soil stiffness and structure and lateral load . Of course mentioning this is necessary we have tried to conduct different types of soil and earth haste gravity in earthquake happening for and eight story and twelve story buildings so the more correct scenario for rehabilitations achieves and the building safety takes part more definite the main goal for determine the special border of effective elements (soil stiffness ; structure and the type of loading system) is to find a correct solution for seismic rehabilitation which the flexibility of soil should be counted.