

Project Title	An Analysis Of Wind And Earthquake Load Distribution In Building By Visual Basic For Application
Project Credit	3 Units
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Abstract

In this project a comparative study of force for buildings designed by earthquake and wind load are investigated for earthquake design by the Equivalent Static Force Method followed Ministerial Regulation B.E.2550 and Bangkok Metropolitan Code 1979 (BMC 1979) is used for wind load design. The buildings in this analysis are reinforced concrete buildings with same shape but different detail of structure. In the analysis the structures was developed by program Visual Basic for Application in Microsoft office Excel

The analysis result shows that the force calculation program ,compare with calculation by human about force distribution to frames is different less than 0.05 percentage. The result from this program found that the same building shape will be effected by earthquake force more than wind force. The building that had decrease size of column will increase deflection, and the building that have shearwall will have small deflection. Building base on rectangle column shape that have applied force side shorter than depth side will have short deflection when compare to building base on square column shape that have same column area

Keywords : Earthquake / Wind / Software / Force Distribution