Thesis Title

Free Vibration Analysis of Shear Wall-Frame Structures by Spline Finite Strip Method

Mr. Pongthorn Raktham

Author

M. Eng.

- 70

Civil Engineering

Examining Commitee :

Assoc.	Prof.	Dr. Che	essada	Kasemset	Chairman
Dr. Api	wat	Oralrat	,tanachai		Member
Prof. D	r. Par	nitan	Lukkunapr	rasit	Member

## Abstract

Free vibration analysis of shear wall - frame structures using spline finite strip method is studied. The frames are modeled as equivalent wall using equivalent wall properties. Both shear walls and frames are idealized as rectangular strip. Representation of displacement fields is the product of B-3 spline functions along the height of structures and the basic polynomial shape functions in the transverse cross section direction.

Numerical analysis results using modern spline finite strip method are reliable and in good correlation with those obtained using the finite element method and the finite strip method.