Examining Committee:

Dr. Apiwat Oralrattanachai Chairman
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Abstract

This research is aimed to apply microcomputer in the analysis and

Engineering

Mr.

Civil

Viruch

Thesis Title

Author

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Microcomputer Application to Analysis and Design

of Partially and Fully Post-Tensioned Flat Slabs

Tangmunkongvorakul

Turbo Pascal language and can be run under DOS at least version 3.30 up.

The slab is idealized by the Equivalent Frame concept and analysed by the Direct Stiffness method. This program can analyse and design both fully prestressed and partially prestressed flat slabs.

design of Post-Tensioned Flat Slabs. The analysis and design method are

based on ACI Building Code (318-89). This VISLAB program is written in

VISLAB Program is user friendly, flexible, and accurate.

Comparisons of the results obtained from this program and the results by Adapt Post Tension program and a work example in PTI manual indicated good correlation.