ABSTRACT

ANALYSIS NOMINAL FLEXURAL STRENGTH COMPOSITE BEAM USING BASED ANDROID PROGRAM

By

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Composite beam is a combination of concrete and steel profiles. Nominal flexural strength analysis of composite cross-section can be calculated manually, but it takes a long time or are not efficient when calculating the nominal flexural strength analysis of composite beams. In this study, it can be a formulation of the problem is how to apply the analysis to the nominal flexural strength composite into android-based programs. The purpose of this study in this thesis is to simplify the calculation of the nominal flexural strength analysis of composite beams using android based application program. Object-based research to create a program that profiles IWF android with concrete (composite beam).

In the implementation of this study using two methods: the method of literature study (study of theory) and methods of software development (analysis, design, coding, and testing).

This program has been tested with manual calculations that show the results accordingly. From the test results indicate that the ease of use of program-based program that android is more simple and easy to use in the field.

Keywords: composite beam, android, nominal flexural strength analysis