

DEVELOPMENT OF CHARTS FOR RECTANGULAR TWO-WAY SLABS SUBJECTED TO ECCENTRIC CONCENTRATED LOAD

Prepared by: Wan Yinn Yin

ABSTRACT

The objective of this project is to develop graphs/charts for the bending moment in a 2-way slab subjected to eccentric concentrated load. The charts are constructed using commercial software MATLAB. Before writing a suitable program to perform the calculations, one must identify the conditions of continuity on edges of the slab where the k_1 must be determined first before proceed to design (refer to Span-ratio adjustment in Table 56 provide in appendix 2). There are 3 cases which a slab may subjected to eccentric concentrated load (refer to appendix Table 56 provide in appendix 2).