

GENERAL ORGANIZATION FOR HOUSING

BUILDING AND PLANNING RESEARCH

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CHARTS FOR THE DESIGN OF ISOLATED COLUMN FOOTINGS

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By Dr. Mostafa M. Sherif

HBRC

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Housing & Building National Research Center

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# CHARTS FOR THE DESIGN OF ISOLATED COLUMN FOOTINGS

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## INTRODUCTION

Charts are presented to provide an easy and fast way to design isolated column footings from the structural point of view. The charts are so designed such that with the column load, allowable bearing pressure of the soil, and allowable stresses for the materials of the footing being known, the dimensions of the footing and its reinforcement can directly be obtained. In practice, footings and columns cross sections may be square or rectangular in shape; for this reason, various values for the degree of rectangularity of the footings and the columns cross sections were considered in the charts.