

## عنوان مقاله:

The Effect of Footing Depth on the Bearing Capacity of the Circular Footing by FELA

## محل انتشار:

چهارمین کنفرانس بین المللی و پنجمین کنفرانس ملی عمران، معماری، هنر و طراحی شهری (سال: 1400)

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## نویسندگان:

Ramin Vali - Lecturer, Department of Civil Engineering, Technical and Vocational University (TVU), Tehran, Iran

Akbar Moradian Jazi - B.S. Student, Department of Civil Engineering, Technical and Vocational University (TVU), Tehran, Iran

Ali Jafari Marbini - B.S. Student, Department of Civil Engineering, Technical and Vocational University (TVU), Tehran, Iran

## خلاصه مقاله:

In the design of many structures such as cooling towers, telecommunication towers, radar stations, and oil storage tanks, the circular footing is increasing. In such footing, it is vital to pay attention to improving the bearing capacity. In the present study, the simultaneous effects of surcharge loading and footing depth on the bearing capacity of circular footing have been investigated. Therefore, Finite Element Limit Analysis has been used. To consider the various conditions, nearly ۱۰۰۰ simulations were performed to achieve the purpose of this research. In this study, the drained geotechnical environment in the various values of soil internal friction angles was discussed. The calculated normalized results have been proposed.

## کلمات کلیدی:

Bearing Capacity, Circular Footing, Finite Element Limit Analysis (FELA), Footing Depth, Surcharge Loading

## لینک ثابت مقاله در پایگاه سیویلیکا:

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