Microporous cast-in-place piles for photovoltaic support

In order to accelerate the refreezing process of cast-in-place pile and improve its freezing force in permafrost, a fast- freezing system (FFS) using the method of artificial ...

place piles, eight manually-excavated rock-socketed cast-in-place piles were subjected to vertical compressive on-site load and pile stress tests. The test results showed that the load ...

The utility model effectively solves the problem of large excavation amount of field cap by setting inclined cap on slope surface; by setting a number of microporous cast-in-place piles between ...

The field static load test method was adopted for two test piles in a project in Zhejiang area of China, analyze the effect of post-grouting technique on super-long cast-in ...

The measuring instrument system is mainly composed of five parts: borehole probe (1), integrated control box (2), signal display (3), transmission cable (4) and depth code ...

The post-pressure grouting technique has proven to be an effective method to enhance axial resistance. In this paper, field tests were conducted to investigate the performances of large ...

3 Numerical method. The commercial software ABAQUS is used to simulate the bearing capacity of the in situ cast-in-place bored pile nos. KYZ-1, KYZ-2, and KYZ-3 with their lengths L p of 52.5 m, 52.4 m, and 52.3 ...

Pile foundations are widely used all over the world. The thermal characteristics of some pile foundations have been of concern, including those of energy piles (Rotta Loria and ...

In order to verify the applicability of the three models for the thermal calculation of bored piles in permafrost regions, a cast-in-place pile investigation was conducted beside ...

Piles can be divided into precast piles (prestressed pipe piles) and cast-in-place piles (bored cast-in-place piles) according to different construction methods. Both are widely used in soft soil ...

Therefore, in view of the technical problem that it is difficult to accurately measure the concrete elevation and laitance thickness during the pouring of super long bored cast-in ...

However, because of the dynamic and cyclic variation in frozen ground affected by the atmosphere, the load transfer mechanism is not yet clear, and the current design is ...

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The pit bottom support is a reinforced concrete structure that is monolithically cast with two lower 0.9 m diameter borehole cast-in-place piles to form the final load-bearing unit.

Micropile groups have been progressively more frequently adopted in the construction of transmission tower bases due to their compact size and flexible construction advantages. However, the load-bearing ...

Combined with practical engineering,the author analyzes the causes of quality problems in bored cast-in-situ pile construction as water oozing from pile casting,collapse of hole wall,deflection ...

The whole construction process of four cast-in-place piles in two pile areas was monitored by the intelligent monitoring system, and the changes in the plane positions of pile ...

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