

عنوان مقاله:

INVESTIGATION INTO THE BEHAVIOR OF BATTER PILE GROUP UNDER LATERAL LOADING USING PIV IN JACKETS

محل انتشار:

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خلاصه مقاله:

If the soil bearing capacity does not enough for use shallow foundations, piles will be used to build deep foundations. Piles are often submitted to strong horizontal forces, as for example in the case of piles in the foundations of the bridges, high buildings, offshore structures, support walls and other structures. Such forces often arise from earthquakes; sea waves, action of winds, earth pressure in support-walls piles and in offshore structures from the flow of the water and the braking of vehicles on the deck, and others. In the design of such pile foundations, two criteria must be satisfied: first an adequate factor of safety against ultimate failure; and second, an acceptable deflection under working loads [1]. Because of different values of loads on different parts of structures, in addition to vertical piles, batter piles are used too. There are two kinds of batter pile: positive and negative. In state negative, pile get stretched load (Fig. 1) and in state positive, pile get compressing load (Fig. 2). Because of more resistance against static and cyclic loads, negative batter piles in fixed offshore structures are used. Behaviour of batter piles under lateral loading is an obvious sample of interaction soil-pile problems [2]

کلمات کلیدی:

Batter pile, Lateral loading, PIV, Shear strain

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