

Title (en)

STATIC PENETROMETER FOR EVALUATING THE LIQUEFIABLE CHARACTER OF A SOIL AND ASSOCIATED METHOD

Title (de)

STATISCHES PENETROMETER ZUR BEURTEILUNG DES VERFLÜSSIGBAREN CHARAKTERS VON BODEN UND ZUGEHÖRIGES VERFAHREN

Title (fr)

PÉNÉTROMÈTRE STATIQUE POUR L'ÉVALUATION DU CARACTÈRE LIQUEFIABLE D'UN SOL ET PROCÉDÉ ASSOCIÉ

Publication

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Application

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Abstract (en)

[origin: WO2019034822A1] The invention relates to a penetrometer (100) for evaluating the liquefiable character of a soil, comprising: • at least one central rod (1) terminated at a first end by a measuring tip (11); • at least one hollow tube (2) surrounding the central rod (1), the latter being capable of sliding inside the hollow tube (2). The penetrometer (100) also comprises an electrical cylinder (6) comprising an external body (61) solidly attached to the hollow tube (2) and a movable body (1), said movable body (1) being: • configured to transmit a movement to a second end (12) of the central rod (1) leading to a controlled pressing of the measuring tip (11) into the soil, and to measure a force applied to produce said movement, • and suitable for applying a vibration at a determined frequency to the second end (12) of the central rod (1).

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