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Operation of the
Dynamic Cone
Penetrometer -

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This standard is issued under the fixed designation D 6951; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in

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parentheses
indicates the year
of

(PDF) THE USE AND
INTERPRETATION
OF THE DYNAMIC
CONE ...

The Dynamic Cone
Penetrometer
(DCP) is a simple
device for m
easuring the
stiffness of

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unbound materials.
The DCP works by
driving a steel rod
into bases and soil
with a preset
amount of energy;
the stiffness of
unbound materials
at different depths
can be measured
by continuously
monitoring

Prediction of CBR

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Using Dynamic
Cone Penetrometer

Keywords: In-situ testing, Dynamic Cone Penetrometer, allowable bearing pressure estimation, economic testing. 1
Introduction The objective of a subsurface

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investigation is to
determine the
engineering

properties of the
soils on which the
foundations will be
placed. Dynamic
Cone Penetration
(DCP) test is one of

What is Dynamic
Cone Penetrometer
(DCP)? [PDF]

Dynamic Cone

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Penetrometer
Description. The
original Dynamic
Cone Penetrometer
(DCP) was
developed in 1959
by the late
Professor George F.
Sowers. The DCP
uses a 15 lb (6.8
kg) steel mass
falling 20 in (50.8
cm) that strikes the
anvil to cause

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penetration of a
1.5 in (3.8 cm)
diameter cone (45°
vertex angle) that
has been seated in
the bottom ...

Use Of Dynamic
Cone Penetrometer
Dynamic Cone
Penetrometer
(DCP) which is
used to determine

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the strength of subgrade and base layers. It is used by Mn/DOT and Mn/ROAD to conduct pavement research because it is easy to transport and inexpensive to operate. The DCP and its uses are fully illustrated and described in this User Guide to the

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Dynamic Cone
Penetrometer.

User Guide to the
Dynamic Cone
Penetrometer
The Dynamic Cone
Penetrometer A
typical Dynamic
Cone Penetrometer
(DCP) consists of
two steel shafts; in
operation, they are
fitted together to

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form a single shaft.

The upper shaft

has a handle at the

top; the hammer is

fitted to this shaft,

and able to slide

freely on it.

Can One Use the
Dynamic Cone

Penetrometer to

Predict the ...

In Australia in

1956, Scala

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developed a
Dynamic Cone
Penetrometer
(DCP), based on an
older Swiss
original, to
evaluate the shear
strength of the
material in a
pavement 2. This
consisted of a 9 kg
(20 pound) mass
dropping 508 mm
(20 inches) and

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Base**

knocking a cone
with a 30° point
into the material
being tested 3.

Standard Test
Method for Use of
the Dynamic Cone

...

Dynamic Cone
Penetrometer, or
DCP, is a tool used
for evaluating the
strength of soils on

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site. It also helps with monitoring the condition of granular layers and subgrade soils in pavement sections over time. It can be used to determine the right solutions for the sites, especially when soft soils are involved.

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Penetrometer In Subgrade And Pavement

Interactive

The dynamic cone penetrometer (DCP) test was developed by Transport and Road Research Laboratory (TRRL),

England. The DCP is an instrument designed for the

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rapid in-situ
measurement of
the structural
properties of
existing road
pavements
constructed with
unbound materials.

Dynamic Cone
Penetrometers
(DCP), Single or
Dual Mass ...
Instructs you on

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the Minnesota
Department of
Transportation's
methods of DCP
operation,
maintenance, and
test results
analysis (2000)

Dynamic Cone
Penetrometer Test
Set ... - Humboldt
Mfg. Co.
THE USE AND

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INTERPRETATION OF THE DYNAMIC CONE

PENETROMETER
(DCP) TEST P Paige-
Green and L Du
Plessis CSIR Built
Environment
Pretoria

USE OF DYNAMIC
CONE
PENETROMETER IN
SUBGRADE AND

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Standard Test
Method for Use of
the Dynamic Cone
Penetrometer in
Shallow Pavement
Applications ,
ADCP, aggregate
base testing,
California bearing
ratio, CBR, DCP,
disposable cones,
dual-mass

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Penetrometer In
hammer, dynamic
cone

penetrometer, in
situ testing, paving
material testing,
shear strength,
subgrade testing,

Dynamic Cone
Penetrometer -
DGSI - Durham Geo
- Soil ...

SF-10 Dynamic
Cone Penetrometer

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measures shear
strength in soils
with CBR values
from 10 to 100.

This kit is ideal for
occasional use in
areas where very
weak soils are not
common. The
single-mass 8kg
(17.6lb) structural
steel hammer is
standard. 2" depth
rings are marked

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on the 37.75in
(95.9cm) drive rod.

The Dynamic Cone
Penetration Test
For Soil Resistance

...

The cone
penetration or cone
penetrometer test
(CPT) is a method
used to determine
the geotechnical
engineering

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properties of soils and delineating soil stratigraphy. It was initially developed in the 1950s at the Dutch Laboratory for Soil Mechanics in Delft to investigate soft soils. Based on this history it has also been called the "Dutch cone test".

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Penetrometer In Subgrade And

(DCP) Test 5.2.1

General.

Introduction. The dynamic cone penetrometer (DCP), since being introduced by Scala in 1956 , has been successfully utilized for estimating the strength of

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soils. The DCP was studied mainly in relation to application in pavement structures and was primarily correlated with California Bearing Ratio (CBR) , , . Since in situ CBR testing is expensive, relatively slow to conduct, and

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generally not ...

Cone penetration test - Wikipedia

1.1 This test method covers the measurement of the penetration rate of the dynamic cone penetrometer with an 8-kg [17.6-lb] hammer (8-kg [17.6-lb] DCP) through

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undisturbed soil or
compacted

materials, or both.

The penetration
rate may be
related to in situ
strength such as an
estimated in situ
CBR (California
Bearing Ratio).

The use and
interpretation of
the Dynamic Cone

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...

The dynamic cone penetrometer (DCP), originally developed by George Sowers, uses a 15 lb steel mass falling 20" to strike an anvil to penetrate a 1.5" diameter 45° (vertex angle) cone that has been seated in the

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bottom of a hand-augered hole.

(PDF) Standard Test Method for Use of the Dynamic Cone ...

Test Overview. The Dynamic Cone Penetration Test provides a measure of a material's in-situ resistance to

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penetration. The test is performed by driving a metal cone into the ground by repeated striking it with a 17.6 lb (8 Kg) weight dropped from a distance of 2.26 feet (575 mm).

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[2754a98535f58229](#)
[3682af9561ed69fd](#)
Base