



**The Use of
NUCLEAR METERS
in Soils Investigations**

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THE USE OF NUCLEAR METERS IN SOILS INVESTIGATIONS: A SUMMARY OF WORLDWIDE RESEARCH AND PRACTICE

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Foreword

For the past several years, there has been an ever increasing interest in the development of equipment for measuring soil density and moisture content based on gamma ray scattering and neutron moderating techniques. While this report is not intended to be an all inclusive treatment of the theory of these techniques, it is intended to provide the reader a useful and practical source for determining the state-of-the-art of nuclear methods for determining soil density and moisture. For the reader who desires more detailed and theoretical knowledge, the extensive Bibliography contained herein will provide a ready source for the location of such knowledge.

W. G. Holtz and C. B. Crawford served as chairmen of Committee D-18 during the preparation of this report. J. P. Gnaedinger served as secretary.

Related ASTM Publications

Soil Exploration, STP 351 (1964), \$8.00

Instruments and Apparatus for Soil and Rock Mechanics, STP 392 (1965), \$8.50

Vane Shear and Cone Penetration Resistance Testing of In-Situ Soils, STP 399 (1966), \$2.25

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