ISO 6640:2024-05 (E)

Measurement of density of water-sediment mixture using radiation transmission method

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Protection against ionizing radiation 2

5 Properties of sediments 2
5.1 General 2
5.2 Particle size 2

6 Principles of radiation transmission and backscattering methods 2
6.1 General 2
6.2 Principle of gamma and X-ray transmission method 2
6.3 Principle of gamma ray backscattering method 5

7 Calibration procedure 6

Annex A (informative) Prototypes of instruments 7

Annex B (informative) Calibration 9

Annex C (informative)Casestudy:Measurementofverticalprofileofwater-sedimentmixture density 12

Bibliography 14