ISO 80000-1:2022-12 (E)

Quantities and units - Part 1: General

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Quantities 1
4.1 The concept of quantity 1
4.2 System of quantities Base quantities and derived quantities 2
4.3 Universal constants and empirical constants 2
4.4 Constant multipliers in quantity equations 3
4.5 International System of Quantities, ISQ 3

5 Dimensions 3

6 Units 5
6.1 General 5
6.2 Units and numerical values 5
6.3 Mathematical operations 5
6.4 Quantity equations and numerical value equations 6
6.5 Coherent systems of units 7

7 Printing rules 7
7.1 Symbols for quantities 7
7.1.1 General 7
7.1.2 Subscripts 7
7.1.3 Combination of symbols for quantities 8
7.1.4 Expressions for quantities 9
7.1.5 Expressions for dimensions 10
7.2 Numbers 10
7.2.1 General 10
7.2.2 Decimal sign 10
7.2.3 Multiplication and division 11
7.2.4 Error and uncertainty 12
7.3 Chemical elements and nuclides 13
7.4 Greek alphabet 14

Annex A (normative)Specifictermsusedforquantities 15

Annex B (normative) Rounding of numbers 19

Bibliography 22