ISO 23131-2:2026-01 (E)

Ellipsometry - Part 2: Bulk material model

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms, definitions and symbols 1

- 3.1 Terms and definitions 1
- 3.2 Symbols and abbreviated terms 1

4 Bulk material model 3

- 4.1 Optical path 3
- 4.2 Assumptions 4
  - 4.2.1 General 4
  - 4.2.2 Deviations from model assumption M1 5
  - 4.2.3 Deviations from model assumption M2 5
  - 4.2.4 Deviations from model assumption M3 5
  - 4.2.5 Deviations from model assumption M4 5
  - 4.2.6 Deviations from model assumption M5 6
  - 4.2.7 Deviations from model assumption M6 6
  - 4.2.8 Deviations from model assumption S1 6
  - 4.2.9 Deviations from model assumption S2 6
- 4.3 Special characteristics of the bulk material model 6
- 4.4 Validation 7
- 4.5 Measurement uncertainty 8
  - 4.5.1 Measurement uncertainty of the ellipsometric transfer quantities Ψ and Δ 8
  - 4.5.2 Measurement uncertainty of the optical (n, k) and dielectric $(\varepsilon_1, \varepsilon_2)$ constants 9

5 Test report 10

Annex A (informative) **Additions to the bulk material model** 12

Bibliography 18