ISO 11670:2003-04 (E)

Lasers and laser-related equipment - Test methods for laser beam parameters - Beam positional stability

Contents

Page

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Coordinate systems and beam axis 3
4.1 Beam axis distribution 3
4.2 Coordinate systems 3

5 Test principles 5
5.1 Beam positional stability 5
5.2 Beam angular stability 5

6 Measurement arrangement, test equipment and auxiliary devices 5
6.1 Preparation 5
6.2 Control of environment 5
6.3 Detection system 6
6.4 Beam-forming optics, optical attenuators, beam splitters, focusing elements 6
6.5 Calibration 6

7 Test procedures 7
7.1 General 7
7.2 Beam positional stability 7
7.3 Beam angular stability 7

8 Evaluation 7
8.1 Beam positional stability 7
8.2 Beam angular stability 8

9 Test report 10

Annex A (informative) Propagation of absolute beam stability 12

Annex B (informative) Decoupling of short- and long-term fluctuations 15