

ISO 27911:2011-08 (E)

Surface chemical analysis - Scanning-probe microscopy - Definition and calibration of the lateral resolution of a near-field optical microscope

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	1
5	General information	2
5.1	Background information	2
5.2	Types of NSOM operation	2
5.3	Methods of measuring the lateral resolution of an NSOM	3
5.4	Parameters that affect the lateral resolution	3
6	Measurement of lateral resolution by imaging a very small object	5
6.1	Background information	5
6.2	Selection of the specimen and specimen requirements	6
6.3	Setting the parameters before the operation of the instrument	7
6.4	Data collection and analysis	7
6.5	Recording of data	8
	Annex A (informative) Examples using a line-profile and a CdSe/ZnS quantum dot as specimen	9
	Annex B (informative) Example of a procedure for preparing standard NSOM specimens	15
	Bibliography	17