

ISO/TR 13115:2011-12 (E)

Non-destructive testing - Methods for absolute calibration of acoustic emission transducers by the reciprocity technique

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Preparation for calibration	3
4.1	Transfer medium and calibration signal	3
4.2	Mounting of acoustic emission transducer	4
4.3	Calculation of reciprocity parameters	5
5	Method for three-transducer calibration	6
5.1	Apparatus to be used	6
5.2	Method of measurement	6
5.3	Method for determination of absolute sensitivity	9
6	Method for two-transducer calibration	9
6.1	Apparatus to be used	10
6.2	Method of measurement	10
6.3	Method for determination of absolute sensitivity	10
7	Method for impulse response calibration	11
7.1	Apparatus to be used	11
7.2	Method of measurement	11
7.3	Method for determination of frequency response	13
7.4	Method for determination of impulse response	15
8	Method for representing calibration results	16
8.1	Representation items for calibration results	16
8.2	Method for representing frequency response of absolute sensitivity	16
8.3	Method for representing impulse response of absolute sensitivity	17
Bibliography		18