

ISO 21940-14:2026-09 (E)

Mechanical vibration - Rotor balancing - Part 14: Procedures for assessing balance errors

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Balance error sources	2
4.1 General	2
4.2 Examples of systematic errors	2
4.3 Examples of randomly variable errors	3
4.4 Examples of scalar errors	3
5 Balance error assessment	3
5.1 General	3
5.2 Balance errors caused by balancing equipment and instrumentation	3
5.3 Balance errors caused by component radial and axial runout	4
5.4 Balance errors caused by deviation of the rotor configuration on the balancing machine from the configuration at service	5
5.5 Assessment of balancing operation errors	5
5.6 Experimental assessment of randomly variable and scalar errors	6
5.6.1 General	6
5.6.2 Procedure	6
5.7 Experimental assessment of systematic errors	6
6 Combined error evaluation	7
7 Balance criteria	8
8 Accounting for measurement errors in the balance quality verification process	9
Annex A (informative) Error examples, their identification and evaluation	10
Bibliography	18