# ISO 21940-14:2012-07 (E)

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

## Contents

Page


Foreword ..... iv

Introduction ..... vi

1 Scope ..... 1

2 Normative references ..... 1

3 Termsanddefinitions ..... 1

4 Balance error sources ..... 1
4.1 General ..... 1
4.2 Systematic errors ..... 2
4.3 Randomly variable errors ..... 2
4.4 Scalar errors ..... 3

5 Error assessment ..... 3
5.1 General ..... 3
5.2 Errors caused by balancing equipment and instrumentation ..... 3
5.3 Balance errors caused by component radial and axial runout ..... 3
5.4 Assessment of balancing operation errors ..... 4
5.5 Experimental assessment of randomly variable errors ..... 5
5.6 Experimental assessment of systematic errors ..... 6

6 Combined error evaluation ..... 6

7 Acceptance criteria ..... 7

Annex A (informative)Errorexamples,theiridentificationandevaluation ..... 8