DIN ISO 21940-14:2012-10 (E)

Mechanical vibration - Rotor balancing - Part 14: Procedures for assessing balance errors (ISO 21940-14:2012)

Contents

Page

National foreword 3

National Annex NA (informative) Bibliography 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Balance error sources 6
4.1 General 6
4.2 Systematic errors 7
4.3 Randomly variable errors 7
4.4 Scalar errors 8

5 Error assessment 8
5.1 General 8
5.2 Errors caused by balancing equipment and instrumentation 8
5.3 Balance errors caused by component radial and axial runout 8
5.4 Assessment of balancing operation errors 9
5.5 Experimental assessment of randomly variable errors 10
5.6 Experimental assessment of systematic errors 11

6 Combined error evaluation 11

7 Acceptance criteria 12

Annex A (informative) Error examples, their identification and evaluation 13