

ISO 14839-3:2006-09 (E)

Mechanical vibration - Vibration of rotating machinery equipped with active magnetic bearings - Part 3: Evaluation of stability margin

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		1
3 Preceding investigation		1
4 Outline of feedback control systems		2
5 Measurement procedures		9
6 Evaluation criteria		11
Annex A (informative) Case study 1 on evaluation of stability margin		13
Annex B (informative) Case study 2 on evaluation of stability margin		25
Annex C (informative) Field data of stability margin		28
Annex D (informative) Analytical prediction of the system stability		32
Annex E (informative) Matrix open loop used for a MIMO system		33
Bibliography		35