1. Record Nr. UNINA9910135502703321 IEEE Recommended Practice for Precision Centrifuge Testing of Linear **Titolo** Accelerometers / / IEEE Pubbl/distr/stampa New York, N.Y.:,: IEEE, , 2009 **ISBN** 0-7381-5994-8 Edizione [(Revision of IEEE Std 836-2001).] Descrizione fisica 1 online resource (x, 152 pages): illustrations Collana IEEE Std;;836-2009 Disciplina 005.3 Application software Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references. Sommario/riassunto This recommended practice provides a guide to the conduct and analysis of precision centrifuge tests of linear accelerometers and covers each phase of the tests, beginning with the planning. Possible error sources and typical methods of data analysis are addressed. The intent is to provide users involved in centrifuge testing with a detailed understanding of the various factors affecting accuracy of measurement, both factors associated with the centrifuge and factors in the data collection process. Model equations are discussed, both for the centrifuge and for a typical linear accelerometer, each with the

complexity needed to accommodate the various identified

accelerometer.

solution is presented for deriving the various model equation

characteristics and error sources in each. An iterative matrix equation

coefficients for the accelerometer under test from the centrifuge test data. Keywords: accelerometer, accelerometer test, centrifuge, linear