

Samenvatting resultaten IOP-project Magneetlagering

Publicaties:

Resultaten Magneetlagering, IOP

<http://precisieportaal.nl/precisiematrix/details.aspx?id=832>

Jabben, Overschie, Molenaar, v. Beek, *Lorentz Motor With Stationary Magnets and Coils Applied in a 6 DoF Contactless Motion Stage*, ASPE Spring Topical Meeting on Control of Precision Systems, Philadelphia, 2001

Overschie, Jabben, Molenaar, v. Eijk, *Design of a 6 DoF Contactless Motion Stage with Stationary Magnets and Coils*, 6th International Symposium on Magnetic Suspension Technology (ISMST), Turijn, 2001

v. Eijk, Bosgra, *Mechatronics: Cooperation in Business*, Proc. of the Symposium on Visions on Advanced Mechatronic Systems and Control, Delft, 2001

H.M.J.R. Soemers, E.W. Gaal, H. Cox, J. v. Eijk, *The Mechatronic Design Approach, A Case Study*

J. v. Eijk, *The Law of Cooperation in Mechatronics*, IEEE / ASME International Conference on Advanced Intelligent Mechatronics, Como, Italy, July 2001, pp: 1153-1159

J. v. Eijk, *Magnetic Suspension for Planar Motion in Clean Environment*, 6th International Symposium on Magnetic Suspension Technology, Turin, Italy, October 2001

L. Jabben , D. Hobbelin, J. v. Eijk, *Non-linear Control of Reluctance Type of Actuators for Ultra High Precision Applications*, 3rd Euspen International Conference 2002, Eindhoven, The Netherlands, May 2002, pp: 179-182

Overschie, P.M., L. Jabben, J. v. Eijk, P. d. Pau, *Mechatronic Improvement in Optical Disc Mastering*, 8th Mechatronics Forum International Conference Mechatronics, Enschede, The Netherlands, June 2002, pp: 105-114

M. Gasulla, L. Xiujun, G.C.M. Meijer, L. v.d. Ham, J.W. Spronck, *A contactless Capacitive Angular-Position Sensor*, IEEE Sensors, Orlando, USA, June 2002, pp: 880-884

L.Jabben, D.G.E Hobbelin, J.W. Spronck, J. van Eijk, *A Mechatronic Design Approach Applied to a Magnetic Bearing System*, 7th International Symposium on Magnetic Suspension Technology (ISMST), Fukuoka, Japan, October 27, 2003, pp: 7-14

M.H. El-Husseini, C. Slinkman, H. Polinder, J.W. Spronck, J. van Eijk, *Low Noise Linear Power Amplifier for Precision Active Magnetic Bearing Application*, 24th Power Conversion & Intelligent Motion Conference (PCIM), Nuerenberg, Germany, May 2003, pp: 179-184

L. Jabben, D.G.E. Hobbelin, J. van Eijk, *System Design of 5 DoF Ultra High Precision, Magnetically Suspended Rotating Platform*, 2nd International Congress on Mechatronics (MECH2K3) Graz, Austria, July 14–16 2003

M.H. El-Husseini, A. Bennani, J.W. Spronck, H. Polinder, J. van Eijk, J.C. Compter, *Low Stiffness Motor For Precision Active Magnetic Bearing Application*, 7th International Symposium on Magnetic Suspension Technology (ISMST), Fukuoka, Japan, October 2003, pp: 37-43

J. van Eijk, H. Soemers, *Achieving Precision through System Engineering*, Proc. of the 18th Annual ASPE Meeting, Portland, USA, October 26, 2003

M.H. El-Husseini, A. Bennani, J.W. Spronck, H. Polinder, J.C. Compter, J. van Eijk, *Evaluation of the Dynamic Radial Stiffness of an Ironless Motor for Precision Engineering Application*, 16th International Conference on Electrical Machines (ICEM2004)

J.W. Spronck, M.H. El-Husseini, L.Jabben, P.M.Overschie, D.G.E.Hobbelen, P.du Pau, H. Polinder, J. van Eijk, *Mastering high-density optical disks: a new concept design*, Assembly Automation, Vol 24 No.4, 2004, Emerald Group Publishing

M.H. El-Husseini, J.W.Spronck, H. Polinder, H.H. Langen, J.C. Compter, J. van Eijk, *Low-stiffness motor: review of different brushless, ironless motor topologies for use in precision engineering applications*, Electromotion, Vol 12 No.2-3, pp. 166-172, 2005, presented at ICEM 2004, Cracow, Poland, 5-8 September 2004

L. Jabben, S. Boschker, P.M. Overschie, D.G.E. Hobbelen, J.W. Spronck and J. van Eijk, *Experimental results at standstill of a five degrees of freedom magnetically levitated rotor*, 8th International Symposium on Magnetic Suspension Technology (ISMST), Dresden, Germany, September 26-28, 2005

C. S. P. Tol, H. Polinder, P. M. Overschie and J. W. Spronck, *Influence of the Drive System on the Performance of a Magnetic Levitated Disk*, 17th International Conference on Electrical Machines, Chania, Greece, September 2-5, 2006

P.M.Overschie , L.Jabben , J.W. Spronck , J. van Eijk , *Mechatronic approach to sensing system design for an Optical Disc Mastering rotor*, 6th International Conference of the European Society for Precision Engineering and Nanotechnology 28th May – 1st June 2006, Baden near Vienna, Austria

P.M.Overschie , L.Jabben , J.P. van Schieven, J.W. Spronck , J. van Eijk, *Capacitive Sensing System Design for a rotating AMB with sub-nanometer positioning accuracy*, 10th International Symposium on Magnetic Bearings, 21-23 August, 2006, Martigny, Switzerland

P.M.Overschie, L.Jabben , F. Savenije, J.W. Spronck , R. Munnig Schmidt, J. van Eijk, *Mechatronic design of an ultra precision magnetically supported rotor and slider for Optical disk mastering – Part 1*, 7th International Conference of the European Society for Precision Engineering and Nanotechnology 20th - 24th May 2007, Bremen, Germany