

## Samenvatting IOP-project Smart Disc

### Publicaties:

Resultaten Smart Disc, IOP

<http://precisieportaal.nl/preciesimatrix/details.aspx?id=831>

### Proefschrift

\*J. Holterman, *Vibration Control of High-precision Machines with Active Structural Elements*, PhD thesis, Twente University Press, Enschede, The Netherlands, 2002. ISBN 9036517931 [http://www.ce.utwente.nl/smartdisc/pub/pub\\_phdthesis.htm](http://www.ce.utwente.nl/smartdisc/pub/pub_phdthesis.htm)

### Patent/octrooi

F. Auer, F.A.C. Spanjers, J. Holterman, M.P. Koster, T.J.A. de Vries, *European Patent EP1225482: Lithographic apparatus and manufacturing method*, 2002

### Journal papers

\*J. Holterman, T.J.A. de Vries, *Active Damping based on Decoupled Collocated Control*, IEEE/ASME Transactions on Mechatronics 10(2), pp.135-145, 2005  
<http://www.precisieportaal.nl/preciesimatrix/details.aspx?id=687>

\*J. Holterman, T.J.A. de Vries, *Active Damping within an Advanced Microlithography System using Piezoelectric Smart Discs*, Mechatronics 14(1), pp.25-34, 2004  
<http://www.precisieportaal.nl/preciesimatrix/details.aspx?id=685>

### Technical papers

\*J. Holterman, T.J.A. de Vries, *Actieve demping helpt nauwkeuriger positioneren*, Mikroniek nr. 5, pp. 5-10, ISSN 0026-3699, 2006  
<http://www.precisieportaal.nl/preciesimatrix/details.aspx?id=691>

\*J. Holterman, T.J.A. de Vries, *Actieve demping... haaks op optimale stijfheid? Optimale stijfheid... haaks op actieve demping!*, Mikroniek nr. 4, pp. 18-23, ISSN 0026-3699, 2005  
<http://www.precisieportaal.nl/preciesimatrix/details.aspx?id=671>

\*J. Holterman, T.J.A. de Vries, *Actieve demping. Een nieuw constructieprincipe?* Mikroniek, nr. 5, pp. 20-30, ISSN 0026-3699, 2002  
<http://www.precisieportaal.nl/preciesimatrix/details.aspx?id=758>

\*J. Holterman, T.J.A. de Vries, M.P. Koster, *Smart Disc. Actieve compensatie van vervormingen*, Mikroniek, nr. 3, pp. 75-81, ISSN 0026-3699, 1999  
<http://www.precisieportaal.nl/preciesimatrix/details.aspx?id=540>

### Conference papers

\*J. Holterman, J. van Amerongen, *Analog Controller Design for an Active Damping Element*, Proc. 3rd IFAC Symposium on Mechatronic Systems 'Mechatronics 2004', Sydney, Australia, pp. 313-318, 2004

\*J. Holterman, T.J.A. de Vries, *Prediction of the Applicability of Active Damping Elements in High-precision Machines*, Proc. SPIE Smart Structures and Materials; Modeling, Signal

Processing and Control (Vol. 5383), San Diego, USA, pp. 211-20, ISBN 0-8194-5300-5, 2004

\*J. Holterman, T.J.A. de Vries, *Active Damping Elements for Improving the Accuracy of a Microlithography Machine*, Proc. SPIE Smart Structures and Materials; Industrial and Commercial Applications of Smart Structures Technology (Vol. 5388), San Diego, USA, pp. 20-31, ISBN 0-8194-5305-6, 2004

\*J. Holterman, T.J.A. de Vries, *Prediction and Improvement of the Maximum Achievable Damping with Collocated Control*, Proc. 10th International Congress on Sound and Vibration 'ICSV10', Stockholm, Sweden, pp. 283-290, 2003

\* J. Holterman, T.J.A. de Vries, F. Auer, *Active Damping based on Decoupled Collocated Control*, Proc. International Symposium on Active Control of Sound and Vibration 'Active 2002', Southampton, UK, pp. 827-838, 2002  
<http://www.precisieportaal.nl/precisiematrix/details.aspx?id=687>

\*J. Holterman, T.J.A. de Vries, *Active Vibration Control based on Collocation*, Proc. 8th Mechatronics Forum International Conference 'Mechatronics 2002', Enschede, The Netherlands, pp. 1038-1047, 2002

\*J. Holterman, T.J.A. de Vries, *Active and Passive Damping based on Piezoelectric Elements - Controllability Issues*, Proc. 3rd Workshop on European Scientific and Industrial Collaboration 'Wesic 2001', Enschede, The Netherlands, pp. 179-188, 2001

\*T.J.A. de Vries, J. Holterman, M.P. Koster, *Smart Disc - Application in an ASML wafer stepper*, Proc. Philips Conference on Applications of Control Technology 'PACT'01', Philips Centre for Industrial Technology, Eindhoven, The Netherlands, 2001  
<http://www.precisieportaal.nl/precisiematrix/details.aspx?id=682>

\*J. Holterman, T.J.A. de Vries, *Self-tuning Integral Force Feedback*, Proc. 5th International Conference on Motion and Vibration Control 'MoViC 2000', University of Technology, Sydney, Australia, pp. 643-648, 2000  
<http://www.precisieportaal.nl/precisiematrix/details.aspx?id=683>

\*J. Holterman, T.J.A. de Vries, *Active Structural Elements within a General Vibration Control Framework*, Proc. 1st IFAC Conference on Mechatronic Systems "Mechatronics 2000", VDI/VDE-GMA, Darmstadt, Germany, pp. 997-1002, 2000

\*J. Holterman, T.J.A. de Vries, M.P. Koster, *Experiment to Evaluate the Feasibility of the Smart Disc Concept*, Proc. 6th UK Mechatronics Forum International Conference 'Mechatronics 98', Skövde, Sweden, pp. 217-222, 1998  
<http://www.precisieportaal.nl/precisiematrix/details.aspx?id=688>

Zie ook: <http://www.ce.utwente.nl/smardisc/>