

Maskinteknisk produktframtagning

Böcker

B.-G. Rosén, T.R. Thomas (eds.), *Proceedings of the 9th Int. Conf. on Metrology and Properties of Engineering Surfaces*, April, Halmstad, Sweden, Halmstad University, ISBN 91-631-5455-2; (2003).

B.-G. Rosén, T.R. Thomas (guest eds.); *Wear: Special issue*, Elsevier, Volume 257, Issue 12, Pages 1207-1321, 9th International Conference on Metrology and Properties of Engineering Surfaces; (2004).

T.R. Thomas, B.-G. Rosén, H. Zahouani (eds.), *Proceedings of the 10th Int. Conf. on Metrology and Properties of Engineering Surfaces*, Jul. 4-7, Saint-Etienne, France, University of Saint-Etienne, ISBN 2-86272-389-4; (2005).

Doktorsavhandling

L. Xiao; *Gear Tribology -Friction and Surface Topography*; Department of Materials and Manufacturing Technology; Chalmers University of Technology, Göteborg, Sweden; ISBN 91-7291-581-1; (2005).

Licavhandlingar

L. Xiao; *Effect of Rough Surface Anisotropy on Friction in Gears*; Department of Production and Production Development; Chalmers University of Technology, Göteborg, Sweden; ISSN 1651-0984 report 8; (2002).

D. Wiklund; *Rough Surfaces and sheet metal forming*; Department of Production and Production Development; Chalmers University of Technology, Göteborg, Sweden; ISSN 1651-0984 report 9; (2002).

B. Nilsson; *Adaptive Finite Element Methods for the Reynolds Thin Film Model with Cavitation*; Department of Applied Mechanics, Chalmers University of Technology, Göteborg, Sweden; ISSN 1652-8565 2005:6; (2005).

Vetenskapliga Tidskrifter

1. L. Xiao, B.-G. Rosén, N. Amini, P.H. Nilsson, *A study on the effect of surface topography on rough friction in roller contact*, Proceedings of the 10th Nordic Symposium on Tribology, Stockholm, 9-12 June, 2002; *Wear*, No. 254, pp. 1162-1169, (2003).
2. M. Lindgren, *Technology and Innovation as an Attractive and Crucial Discipline for Tomorrow*. Witold Rogala and Lars Lindström (eds.), *New Perspectives on Technology Education*. Stockholm Library of Curriculum Studies vol.12. Stockholm Institute of Education Press., (2004).

3. L. Xiao, B.-G. Rosen, N. Amini; *Surface lay effect on rough friction in roller contact*; *Wear*, v 257, n 12, p 1301-1307; (2004).
4. D. Wiklund, A. Wihlborg, B.-G. Rosén,. *Evaluation of surface topography parameters for friction prediction in stamping*; *Wear*, v 257, n 12, p 1296-1300 ; (2004).
5. B.-G. Rosén, A. Wennerberg, S. Rosén ; *Topographical characterisation of artificial femoral heads—a Benchmarking*; *Wear*, v 257, n 12, p 1275-1280 ; (2004).
6. L. Blunt and T.R. Thomas; *Wear ranking of hard on hard bearings for prosthetic hip joints*; *Wear*, v 257, n 12, p 1208-1212 ; (2004).
7. B.-G. Rosén, L. Blunt, T.R. Thomas; *On in-vivo skin topography metrology and replication techniques*; *J. Phys.: Conf. Ser.* 13 325-329; (2005).

Konferenser och Workshops med full-paper review

1. D. Wiklund, A. Wihlborg, Rosén B.-G.; *A Comparative Surface Topography Study of FEM Simulation and Surface Indentation Tests (SIT) on Friction Prediction in Steel Sheet Forming*, Proceedings of the 10th Nordic Symposium on Tribology, Stockholm, 9-12 June, (2002).
2. B.-G. Rosén, A. Wennerberg, *Topographical Characterisation of Artificial femoral heads – A Measurement methods and benchmarking study*, In: B.-G. Rosén, T.R. Thomas, L. Blunt (eds.)Transactions of the 9th Int. Conf. on Metrology and Properties of Engineering Surfaces, Sept. 10-11, Halmstad University, Halmstad, Sweden, ISBN 91-631-5455-2, (2003).
3. D. Wiklund, A. Wihlborg, B.-G. Rosén,. *Evaluation of surface topography parameters for friction prediction in stamping*; In: B.-G. Rosén, T.R. Thomas, L. Blunt (eds.)Transactions of the 9th Int. Conf. on Metrology and Properties of Engineering Surfaces, Sept. 10-11, Halmstad University, Halmstad, Sweden, ISBN 91-631-5455-2, (2003).
4. L. Blunt and T.R. Thomas; *Wear ranking of hard on hard bearings for prosthetic hip joints*; In: B.-G. Rosén, T.R. Thomas, L. Blunt (eds.)Transactions of the 9th Int. Conf. on Metrology and Properties of Engineering Surfaces, Sept. 10-11, Halmstad University, Halmstad, Sweden, ISBN 91-631-5455-2, (2003).
5. L. Xiao, B.-G. Rosén, Naser Amini; *Surface lay effect on rough friction in roller contact*, In: B.-G. Rosén, T.R. Thomas, L. Blunt (eds.)Transactions of the 9th Int. Conf. on Metrology and Properties of Engineering Surfaces, Sept. 10-11, Halmstad University, Halmstad, Sweden, ISBN 91-631-5455-2, (2003).
6. B.-G. Rosén, S. Rosén, T.R. Thomas; *Analysis of 3-D surfaces in forming dies and sheet metal - Today and tomorrow; Proceedings of the International Conference on Recent Advances in Manufacture and Use of Tools and Dies and Stamping of Steel Sheets*, p 29-53, (2004).
7. A. Kühle, B.-G Rosén., J. Garnæs, *Comparision of roughness measurement with atomic force microscopy and interference microscopy*, In: A. Duparré, B. Singh (eds.) Proceedings of SPIE Vol. 5188 -Advanced characterization techniques for optics, semiconductors and nanotechnologies, SPIE, Bellingham, WA, USA; (2003).

8. L. Xiao, S. Björklund, B.G. Rosén, *The influence of surface roughness and the contact pressure distribution on friction in rolling/sliding contacts*, Presented at the 11th Nordic Symposium on Tribology, Norway, 2004.
9. L. Xiao, B.-G. Rosén, P.H. Nilsson, M. Kalin and J. Vizintin, *Rolling and rolling-to-sliding contact behaviour of DLC coatings*, Presented at the 31th Leeds-Lyon Symposium on Tribology, Leeds, (2004).
10. B. Nilsson, B.-G. Rosén, T. R. Thomas, D. Wiklund, L. Xiao; *Oil pockets and surface topography: mechanisms of friction reduction*; In: M. Dietzsch, H. Trumpold (ed.) Appendix of Proceedings to the XI International Conference on Engineering Surfaces, , Februari 2nd and 3rd 2004 in Chemnitz, Germany (2004).
11. L. Xiao, B.-G. Rosén, P.H. Nilsson, S. Ahlinder; *Surface characterisation and correlation to friction in gears*, In: T.R. Thomas, B.-G. Rosén, , H. Zahouani (eds.) Proceedings of the 10th Int. Conf. on Metrology and Properties of Engineering Surfaces, Jul. 4-7, Saint-Etienne, France, (2005).
12. D. Wiklund, B.-G. Rosén, L. Gunnarsson; *Frictional Mechanisms in Mixed lubricated regime in sheet metal forming*, In: T.R. Thomas, B.-G. Rosén, , H. Zahouani (eds.) Proceedings of the 10th Int. Conf. on Metrology and Properties of Engineering Surfaces, Jul. 4-7, Saint-Etienne, France, (2005).
13. E. Strandell, , C. Allenius, U. Eckersand, M. Kamal, B.-G. Rosén; *Influence of the surface texture of oral implants on the attachment of human gingival fibroblasts (HGF)*; In: T.R. Thomas, B.-G. Rosén, , H. Zahouani (eds.) Proceedings of the 10th Int. Conf. on Metrology and Properties of Engineering Surfaces, Jul. 4-7, Saint-Etienne, France, (2005).
14. C. Anderberg, S. Johansson, P. H. Nilsson, R. Ohlsson, B.-G. Rosén; *Wear resistance of smooth automotive cylinder liner surfaces*, Proceedings of WTC2005 World Tribology Congress III, September 12-16, Washington, D.C., USA; (2005).
15. S. Johansson, P. H. Nilsson, R. Ohlsson, C. Anderberg, B.-G. Rosén; *Optimization of the Cylinder Liner Surface for Reduction of Oil Consumption*; Proceedings of WTC2005 World Tribology Congress III, September 12-16, Washington, D.C., USA; (2005).