

Bibliografia

1. GWEC, *Global wind report, Annual market update 2010*, April 2011
2. Y. Feng, P. Tavner, *Introduction to wind turbines and their reliability & availability*, Durham side event at the EWEC conference, Warsaw, April 2010
3. ISO 15243:2004, *Cuscinevoli – Danneggiamenti e guasti – Terminologia, caratteristiche e cause*
4. ISO 281, *Rolling bearings – Dynamic load ratings and rating life*; ISO/TR 1281-2: *Rolling bearings – Explanatory notes on ISO 281 – Part 2: Modified rating life calculation, based on a systems approach to fatigue stresses*, and *SKF General Catalogue*
5. H. Swahn, P.C. Becker, O. Vingsbo (1976a), *Martensite decay during rolling contact fatigue in ball bearings*, *Metalurgical Transactions A*, Vol. 7A, No. 8, pp. 1099–1110
6. J. Gegner, *Tribological aspects of rolling bearing failures*. In: *Tribology – Lubricants and Lubrication*, Kuo, C.-H. (Ed.), *InTech*, Rijeka, Croatia, 2011, Chap. 2, pp. 33–94, <http://www.intechopen.com/articles/show/title/tribological-aspects-of-rolling-bearing-failures>
7. J. Gegner, *Frictional surface crack initiation and corrosion fatigue driven crack growth*, NREL workshop, Broomfield, November 2011
8. J. Luyckx, *Hammering wear impact fatigue hypothesis WEC/irWEA failure mode on roller bearings*, NREL workshop, Broomfield, November 2011
9. W. Holweger, *Influence on bearing life by new material phenomena*, NREL workshop, Broomfield, November 2011
10. M.H. Evans, *White structure flaking (WSF) in wind turbine gearbox bearings: Effects of 'butterflies' and white etching cracks (WECs)*, *Material Science and Technology*, Vol. 28 No. 1, 2012
11. J.P. Molly, *Wind energy – Quo vadis?* DEWI Magazine No. 34, February 2009
12. D. Heidenreich, *A lean solution to the gearbox life problem in wind turbine drive systems*, Hannover Messe 2011
13. J. Rosinski, D. Smurthwaite, *Trouble-shooting wind gearbox problems*, *Gear solutions 2010*
14. A. Heege et al., *Matching experimental and numerical data of dynamic wind turbine loads by modelling of defects*, SAMTECH, EWEC 2009
15. D. Aguglia, R. Rebeschini, *Power transfer role for gearbox mechanical stress mitigation during voltage dips applied to doubly-fed induction generator based WT*, EWEC Warsaw, April 2010
16. J. Gegner, W. Nierlich, *Mechanical and tribochemical mechanisms of mixed friction induced surface failures of rolling bearings and modelling of competing shear and tensile stress controlled damage initiation*. *Tribologie und Schmierungstechnik*, Vol. 58, 2011, No. 1, pp. 10–210
17. W. Nierlich, J. Gegner, *Einführung der Normalspannungshypothese für Mischreibung im Wälz-Gleitkontakt. Gleit- und Wälzlagerungen: Gestaltung, Berechnung, Einsatz*, VDI-Berichte 2147, VDI Wissensforum, Düsseldorf, Germany, 2011, pp. 277–290 (in German)
18. M.N. Kotzalas, G.L. Doll, *Tribological advancements for reliable wind turbine performance*, *Phil.Trans.R.Soc. A* 368, 2010
19. T. Thomas, *Schäden durch Schwingungen noch nicht im Griff*, VDI Nachrichten, 26.Feb.2010, No. 8
20. T. Korzeniewski, *Gearbox protection concept for wind turbine generator systems*, DEWI No. 36, 2010
21. FVA 541 I, *Wälzlagerlebensdauer-Windgetriebe*, 2010
22. B. Kamchev, *Wind energy encounters turbulence*, *Lubes'n'greases 2011*
23. R. Heemskerck, *Challenges on rolling bearings in wind turbines*, VDI Gleit- und Wälzlagerungen 2011
24. IEC/ISO 61400-1 to 25, *Requisiti di progetto delle turbine eoliche*
25. ANSI/AGMA/AWEA 6006-A03, *Standard for design and specification of gearboxes for wind turbines*, 2003
26. O. Klempert, *Belastungen im Getriebe werden zum Streitthema*, VDI Nachrichten, 14.Mai.2010, No.19
27. W. Musial, S. Butterfield, B. McNiff, *Improving wind turbine gearbox reliability*, NREL, 2007
28. H. Uyama, *The mechanism of white structure flaking in rolling bearings*, NREL workshop, Broomfield, November 2011
29. N. Kino, K. Otani, *The Influence of hydrogen on rolling contact fatigue life and its improvement*, *JSAE Rev.*, 24, 2003
30. K. Tamada, H. Tanaka, *Occurrence of brittle flaking on bearings used for automotive electrical instruments and auxiliary devices*, *Wear*, 199, 1996
31. T. Lund, *Subsurface initiated rolling contact fatigue – Influence of non-metallic inclusions, processing conditions and operating conditions*, *J. ASTM Int.*, 7, 2010
32. T. Lund, *SABB 1309*, ASTM conference, Tampa, 2011
33. R. Vegter, J. Slycke, *The role of hydrogen on rolling contact fatigue response of rolling element bearings*, *J. ASTM Int.*, 7, 2009
34. I. Strandell, C. Fajers, T. Lund, *Corrosion – One root cause for premature failures*, 37th Leeds-Lyon Symposium on Tribology, 2010
35. J. Gegner, W. Nierlich, *Sequence of microstructural changes during rolling contact fatigue and the influence of hydrogen*. *Proceedings of the 5th International Conference on very high cycle fatigue*, Berger, C. and Christ, H.-J. (Eds.), German Association for Materials Research and Testing (DVM), Berlin, 2011, pp. 557–562
36. J. Gegner, W. Nierlich, *Hydrogen accelerated classical rolling contact fatigue and evaluation of the residual stress response*, *Material Science Forum* Vol. 681, 2011
37. T.H. Kim, A.V. Olver, P.K. Pearson, *Fatigue and fracture mechanism in large rolling element bearings*, *Tribology Transaction*, 44, 2001
38. J. Lai et al., *The fatigue limit of bearing steels – Part I: A pragmatic approach to predict very high cycle fatigue strength*, *International J.o.Fatigue*, 37, 2012
39. R. Pasaribu, P. Lugt, *The composition of reaction layers on rolling bearings lubricated with gear oils and its correlation with rolling bearing performance*, *Tribology Transaction*, STLE, 2012
40. I. Nedelcu, E. Piras, A. Rossi, R. Pasaribu, *XPS analysis on the influence of water on the evolution of zinc dialkyldithiophosphate-derived reaction layer in lubricated rolling contacts*, ECASIA special issue paper, *Surf. Interface Anal*, 2012
41. B. Han, Bo.X. Zhou, R. Pasaribu, *C-Ring hydrogen induced stress corrosion cracking (HISCC) tests in lubricating liquid media*, European Corrosion Congress, Stockholm, 2011
42. A. Félix-Quiñonez, G.E. Morales-Espejel, *Film thickness fluctuations in time-varying normal loading of rolling elastohydrodynamically lubricated contacts*, *Proc. IMechE* Vol. 224 Part C, 2010
43. A. Félix-Quiñonez, G.E. Morales-Espejel, *Film thickness in EHL rolling contacts with transient normal load*, *ITC Hiroshima*, 2011
44. W. Holweger, J. Loos, *Beeinflussung der Wälzlagerlebensdauer durch neue Werkstoffphänomene in speziellen Anwendungen*, *Antriebstechnisches Kolloquium Aachen*, ATK, 2011
45. M. Brueckner, J. Gegner, A. Grabulov, W. Nierlich, J. Slycke, *Butterfly formation mechanisms in rolling contact fatigue*, *D.Verb.für Materialfor. und -prüf. e.V.*, 2011
46. J. Lai, J. Wang, E. Ioannides, *Fluid-crack interaction in lubricated rolling-sliding contact*, *Proceedings of the STLE/ASME, IJTC 2008*
47. J. Gegner, W. Nierlich, *Operational residual stress formation in vibration-loaded rolling contact*. *Advances in X-ray Analysis*, Vol. 52, 2008, pp. 722–731
48. G.E. Morales-Espejel, V. Brizmer, *Micropitting modelling in rolling-sliding contacts: Application to rolling bearings*, *Trib. Trans.* Vol. 54, pp. 625–643, 2011
49. K. Stadler, G.E. Morales-Espejel, V. Brizmer, *Micropitting in rolling bearings: influence of lubrication, roughness, wear and ways of prevention*, *Antriebstechnisches Kolloquium Aachen*, ATK 2011