

Publications

Books

1. H.J. Zwart; *Geometric Theory for Infinite Dimensional Systems*. Lecture Notes in Control and Information Sciences, Vol 115, Springer Verlag, 1989.
2. R.F. Curtain and H.J. Zwart; *An Introduction to Infinite-Dimensional Systems Theory*, Text in Applied Mathematics Vol. 21, Springer Verlag, New-York, 1995.

Articles in journals

1. R.F. Curtain and H.J. Zwart; A note on Spectral Realizations for Delay Systems. *Systems and Control Letters*, Vol. 11, pp. 265-269, 1988.
2. J.R. Partington, K. Glover, H.J. Zwart and R.F. Curtain; L_∞ -approximation and Nuclearity of Delay Systems. *Systems and Control Letters*, Vol. 10, pp. 59-65, 1988.
3. H.J. Zwart, R.F. Curtain, J.R. Partington and K. Glover, Partial Fraction Expansions for Delay Systems. *Systems and Control Letters*, Vol. 10, pp. 235-243, 1988.
4. H.J. Zwart; Characterization of all Controlled Invariant Subspaces for Spectral Systems. *SIAM Journal on Control and Optimization*, Vol. 26, no. 2, pp. 369-387, 1988.
5. H.J. Zwart; Equivalence between Open Loop and Closed Loop Invariance for Infinite Dimensional Systems: a frequency domain approach. *SIAM Journal on Control and Optimization*, Vol. 26, no. 5, pp. 1175-1199, 1988.
6. H. Logemann and H.J. Zwart; Some remarks on adaptive stabilization of infinite-dimensional systems, *Systems & Control Letters*, Vol. 16, pp. 199-207, 1991.
7. L. Pandolfi and H.J. Zwart; Stability of perturbed linear distributed parameter systems, *Systems & Control Letters*, Vol. 17, pp. 257-264, 1991.
8. H. Logemann and H.J. Zwart; On Robust PI-Control of Infinite-Dimensional Systems, *SIAM J. Control and Optimization*, Vol. 30, No. 3, pp. 573-593, 1992.
9. R.F. Curtain, H. Logemann, S. Townley and H.J. Zwart; Summary of “Well-Posedness, stabilizability and admissibility for Pritchard-Salamon systems”, *Journal of Mathematical Systems, Estimation and Control*, Vol. 4 No. 4, pp. 493-496, 1994.

10. R.F. Curtain and H.J. Zwart; The Nehari Problem for the Pritchard–Salamon class of Infinite-Dimensional Linear Systems: a direct approach, *Integr. Equat. Oper. Th.*, Vol. 18, pp. 130–153, 1994.
11. H. Zwart, Y. Yamamoto and Y. Gotoh; Stability is realization dependent: some examples, *Systems and Control Letters*, Vol. 24, pp. 25–31, 1995.
12. H. Zwart; A note on applications of interpolation theory to control problems of infinite-dimensional systems, *Appl. Math. and Comp. Sci.*, Vol. 6, No. 1, pp. 5–14, 1996.
13. R.F. Curtain and H. Zwart; Riccati equations and normalized coprime factorizations for strongly stabilizable infinite-dimensional systems, *System and Control Letters*, Vol. 28, pp. 11–22, 1996.
14. C.R. Kuiper and H.J. Zwart; Connections between the Algebraic Riccati Equation and the Hamiltonian for Riesz-Spectral Systems, *Journal of Mathematical Systems, Estimation, and Control*, Vol. 6, No. 4, pp. 481–484, 1996.
15. J. Oostveen and H. Zwart; Solving the infinite-dimensional discrete-time algebraic Riccati equation using the extended symplectic pencil, *MCSS*, Vol. 9, pp. 242–265, 1996.
16. H. Zwart and M.B. Hof; Zeros of Infinite-dimensional systems, *IMA Journal of Mathematical Control and Information*, Vol. 14, pp. 85–94, 1997.
17. R.F. Curtain, H. Logemann, S. Townley and H. Zwart; Well-Posedness, stabilizability and admissibility for Pritchard-Salamon systems, *Journal of Mathematical Systems, Estimation, and Control*, Vol. 7, No. 4, pp. 439-476, 1997.
18. G. Weiss and H. Zwart; An example in linear quadratic optimal control, *Systems & Control Letters*, Vol. 33, pp. 339-349, 1998.
19. B. Jacob, M. Larsen and H. Zwart; Corrections and extensions of “Optimal control of linear systems with almost periodic input” by G. Da Prato and A. Ichikawa, *SIAM J. Control Optim.*, Vol. 36(4), pp. 1473–1480, 1998.
20. M. Hermle, H. Zwart, and R. Curtain; Robust controllers for dead-time systems, *ZAMM*, Vol. 78, pp. 479–480, 1998.
21. G.R.B.E. Römer, H. Zwart, K.A.J. De Graaff, and J. Meijer; Modelling of the temperature field induced by laser surface irradiation in the view of the feedback control theory; *Laser in Engineering*, Vol. 7, pp. 179–197, 1998.
22. R. Rebarber and H. Zwart; Open-loop stabilization of infinite-dimensional systems; *Math. Control Signals Systems*, Vol. 11, pp. 129–160, 1998.
23. B. Jacob, J. Winkin and H. Zwart; Continuity of the spectral factorization on a vertical strip. *Systems & Control Letters*, Vol. 37(4), pp. 183-192, 1999.
24. B. Jacob and H. Zwart; Equivalent conditions for stabilizability of infinite-dimensional systems with admissible control operators. *SIAM Journal on Control and Optimization*, Vol. 37(5), pp. 1419-1455, 1999.

25. H. Zwart; Book review of “Smart material structure” H.T. Banks, R.C. Smith, and Y. Wang. *Automatica*, Vol. 36, pp. 639–640, 2000.
26. G. Meinsma, H. Zwart; On \mathcal{H}_∞ control problem for dead-time systems, *IEEE Transactions on Automatic Control*, Vol. 45, pp. 272-285, 2000.
27. H. Zwart; On the invertibility and bounded extension of C_0 -semigroups. *Semigroup Forum*, Vol. 63, pp. 153–160, 2001.
28. B. Jacob and H. Zwart; Exact observability of diagonal systems with a finite-dimensional output operator. *Systems & Control Letters*, Vol. 43, pp. 101-109, 2001.
29. B. Jacob and H. Zwart; Exact observability of diagonal systems with a one-dimensional output operator. *Int. J. Appl. Math. Comput. Sci.*, Vol. 11, pp. 1277-1283, 2001.
30. O. Iftime and H. Zwart; J -spectral factorization and equalizing vectors. *Systems & Control Letters*, Vol. 43, pp. 321-327, 2001.
31. O. Iftime and H. Zwart; Nehari problems and equalizing vectors for infinite-dimensional systems. *Systems & Control Letters*, Vol. 45, pp. 217-225, 2002.
32. B. Jacob and H. Zwart; Properties of the realization of inner functions. *MCSSS*, Vol. 15, pp. 356–379, 2002.
33. H. Zwart, B. Jacob and O. Staffans; Weak admissibility does not imply admissibility for analytic semigroups. *Systems & Control Letters*, Vol. 48, pp. 341–350, 2003.
34. H. Zwart; Transfer functions for infinite-dimensional systems. *Systems & Control Letters*, Vol. 52, pp. 247–255, 2004.
35. B. Jacob and H. Zwart; Counterexamples concerning observation operators for C_0 -semigroups. *SIAM J. Control Optim.*, Vol. 43, pp. 137–153, 2004.
36. Y. Le Gorrec, H. Zwart and B.M.J. Maschke; Dirac structures and boundary control systems associated with skew-symmetric differential operators. *SIAM Journal on Control and Optimization*, 44 (5). pp. 1864-1892, 2005.
37. O.V. Iftime, H. Zwart and R.F. Curtain; A representation of all solutions of the control algebraic Riccati equation for infinite-dimensional systems. *International Journal of Control*, 78 (7). pp. 505-520, 2005.
38. H. Zwart, Sufficient conditions for admissibility, *Systems & Control Letters*, Vol. 54(10), pp. 973–979, 2005.
39. T. Eisner and H. Zwart; Continuous-time Kreiss resolvent condition on infinite-dimensional spaces, *Mathematics of Computation*, Vol. 75(256), pp. 1971–1985 (electronic), 2006
40. B.Z. Guo and H. Zwart; On the relation between stability of continuous- and discrete-time evolution equations via the Cayley transform, *Integral Equations and Operator Theory*, Vol. 54(3), pp. 349–383, 2006.
41. A. Gomilko and H. Zwart; The Cayley transform of the generator of a bounded C_0 -semigroup, *Semigroup Forum*, Vol. 74(1), pp. 140–148, 2007.

42. A.M. Gomilko, H. Zwart and Yu. Tomilov; Inverse operator of the generator of a C_0 -semigroup, *Sbornik: Mathematics*, Vol. 198(8), pp. 1095-1100, 2007.
43. S. Piskarev and H. Zwart; Crank-Nicolson scheme for abstract linear systems, *Numerical Functional Analysis and Optimization. An International Journal*, Vol. 28(5-6), pp. 717–736, 2007.
44. H. Zwart; Growth estimates for $\exp(A^{-1}t)$ on a Hilbert space, *Semigroup Forum*, Vol. 74(3), pp. 487–494, 2007.
45. H. Zwart; Is A^{-1} an infinitesimal generator? *Banach center publications*, Vol. 75. pp. 303-313, 2007.
46. T. Eisner and H. Zwart; A note on polynomially bounded C_0 -semigroups. *Semigroup Forum*, Vol. 75(2), pp. 438–445, 2007.
47. T. Eisner and H. Zwart; The growth of a C_0 -semigroup characterised by its cogenerator, *Journal of Evolution Equations*, Vol. 8(4), pp. 749–764, 2008.
48. J.A. Villegas, H. Zwart, Y. Le Gorrec and B. Maschke; Exponential stability of a class of boundary control systems, *IEEE transactions on automatic control*, Vol. 54(6), pp. 142–147, 2009.
49. B. Jacob and H. Zwart; On the Hautus test for exponentially stable C_0 -groups, *SIAM journal on control and optimization*, Vol. 48(3), pp. 1275–1288, 2009.
50. R.F. Curtain, O.V. Iftime and H. Zwart; System theoretic properties of a class of spatially invariant systems, *Automatica*, Vol. 45(7), pp. 1619–1627, 2009.
51. S. van Mourik, H. Zwart and K.J. Keesman, Modelling and controller design for distributed parameter systems via residence time distribution, *International Journal of Control*, Vol. 82(8), pp. 1404–1413, 2009.
52. S. van Mourik, H. Zwart, and K.J. Keesman, Integrated open loop control and design of a food storage room, *Biosystems Engineering*, Vol. 104(4), pp. 493–502, 2009.
53. H. Zwart, Y. Le Gorrec, B. Maschke and J. Villegas, Well-posedness and regularity of hyperbolic boundary control systems on a one-dimensional spatial domain, *ESAIM COCV*, DOI: 10.1051/cocv/2009036, published online 25 August 2009.
54. N.C. Besseling and H. Zwart, Stability analysis in continuous and discrete time, using the Cayley transform, *Integral Equations and Operator Theory*, Vol. 68, pp. 487–502, 2010.
55. R.F. Curtain, O.V. Iftime, and H. Zwart, A comparison between LQR control for a long string of SISO systems and LQR control of the infinite spatially invariant version, *Automatica*, Vol. 46, pp. 1604–1615, 2010.
56. M. Kurula, H. Zwart, A.J. van der Schaft, and J. Behrndt, Dirac structures and their composition on Hilbert spaces, *Journal of Mathematical Analysis and Applications*, Vol. 371, pp. 402–422, 2010.

57. S. van Mourik, H. Zwart, and K.J. Keesman, Switching input controller for a food storage room, *Control Engineering Practice*, Vol. 18(5), pp. 507–514, 2010.
58. S. van Mourik, B.J. Geurts, H. Zwart, and K.J. Keesman, Modelling and controller design for a UV disinfection plant, *European Journal of Control*, Vol. 16, pp. 119–128, 2010.
59. D. Vries, K.J. Keesman, and H. Zwart, Luenberger boundary observer synthesis for Sturm-Liouville systems, *International Journal of Control*, Vol. 83, pp. 1504–1514, 2010.
60. H. Zwart, Riesz basis for strongly continuous groups, *Journal Differential Equation*, Vol. 249, pp. 2397–2408, 2010.
61. H. Zwart, S. van Mourik, and K.J. Keesman, Switching control for a class of non-linear systems with an application to post-harvest food storage, *European Journal of Control*, Vol. 5, pp. 1–7, 2010.
62. F.-Z. El Alaoui, H. Zwart and A. Boutoulout, Spectral conditions implied by observability. *SIAM Journal on Control and Optimization* Vol. 49 (2), pp. 672–685, 2011.

Chapters in books

1. H.J. Zwart; Some Remarks on Open and Closed Loop Stabilizability for Infinite Dimensional Systems. In *International Series of Numerical Mathematics*, Vol. 91, Birkhäuser Verlag Basel, 1989, pp. 425–434.
2. H. Zwart; Linear quadratic optimal control for abstract linear systems; in *Modelling and Optimization of Distributed Parameter Systems, applications to Engineering*, Edited by K. Malanowski, Z. Nahorski and M. Peszynska, Chapman and Hall, pp. 175–182, 1996.
3. H.J. Zwart and C.R. Kuiper; Relation between invariant subspaces of the Hamiltonian and the algebraic Riccati equation, in *Modelling and Optimization of Distributed Parameter Systems, applications to Engineering*, Edited by K. Malanowski, Z. Nahorski and M. Peszynska, Chapman and Hall, pp. 183–190, 1996.
4. H. Zwart and J. Bontsema; *An application driven guide through infinite-dimensional systems theory*, chapter 10 in *Plenary Lectures and Mini-Courses, ECC-97*, Eds. G. Bastin and M. Gevers, 1997.
5. H. Zwart; Where are the zeros located, in *Open problems in Mathematical Systems and Control Theory*, V.D. Blondel, E.D. Sontag, M. Vidyasagar and J.C. Willems (eds), Springer Verlag, 1999.
6. B. Jacob and H. Zwart; Exact controllability of C_0 -groups with one-dimensional input operators, chapter 12 in *Advances in Mathematical Systems Theory, A Volume in Honor of Diederich Hinrichsen*, F. Colonius, U. Franke, D. Prätzel-Wolters and F. Wirth (eds), Birkhäuser, 2000.
7. B. Jacob and H. Zwart; A Hautus test for infinite-dimensional systems, in *Unsolved Problems in Mathematical Systems & Control Theory*, V.D. Blondel and A. Magretski (eds), Princeton University Press, 2004.

Conference articles

1. R.F. Curtain and H.J. Zwart; Spectral Realizations for Delay Systems; in *Distributed Parameter Systems*, Proceedings of the 3rd International Conference, Vorau, Austria, July 6-12, 1986, Ed. F. Kappel, K. Kunisch and W. Schappacher, Lecture Notes in Control and Information Sciences 102, Springer Verlag, 1986
2. R.F. Curtain and H.J. Zwart; L_∞ -approximations of Non-rational Transfer Functions: An example. pp. 167-168, *Proc. of the 25th IEEE Conference on Decision and Control*, Dec. 10-12, 1986, Athens, Greece, IEEE Control Systems Society, New York, 1986.
3. H.J. Zwart; Open Loop Stabilizability, a research note. in *Proceedings of the IFAC conference on Distributed Parameter Systems*, Perpignan, France, 26-29 June 1989, pp. 505-509.
4. H.J. Zwart; On the solution of DDP in infinite-dimensional systems; *Proceedings of the international Symposium MTNS-89*, In Progress in Systems and Control Theory, Vol. 5, Birkhäuser Verlag Boston, pp. 363-371, 1990.
5. H.J. Zwart; Open loop stabilization of the undamped wave equation; *Proceedings of the first European Control Conference*, Grenoble, France, July 2-5 1991, pp. 2064-2066.
6. H.J. Zwart; Open loop stabilization of the undamped beam equation; *Recent Advances in Mathematical Theory of Systems, Control, Networks and Signal Proceeding I*, Proceedings of the International Symposium MTNS-91, H. Kimura and S. Kodama (Eds), Mita Press Tokyo, 1992, pp. 127-131.
7. C.R. Kuiper and H.J. Zwart; Solution on the ARE in terms of the Hamiltonian for Riesz-spectral Systems, pp. 314-325 in *Analysis and Optimization of Systems: State and Frequency Domain Approaches for Infinite-Dimensional Systems*, R.F. Curtain (Ed), A. Bensoussan, J.L. Lions (Honorary Eds.), Proceedings of the 10th International Conference, Sophia-Antipolis, France, June 9-12, 1992.
8. H.J. Zwart; Disturbance Decoupling Problem for Infinite-Dimensional Systems, pp. 279-289 in *Analysis and Optimization of Systems: State and Frequency Domain Approaches for Infinite-Dimensional Systems*, R.F. Curtain (Ed), A. Bensoussan, J.L. Lions (Honorary Eds.), Proceedings of the 10th International Conference, Sophia-Antipolis, France, June 9-12, 1992.
9. H.J. Zwart, Y. Yamamoto and Y. Gotoh; On the Stability Uniformity of Infinite-Dimensional Systems, pp. 401-409 in *Analysis and Optimization of Systems: State and Frequency Domain Approaches for Infinite-Dimensional Systems*, R.F. Curtain (Ed), A. Bensoussan, J.L. Lions (Honorary Eds.), Proceedings of the 10th International Conference, Sophia-Antipolis, France, June 9-12, 1992.
10. R. Rebarber and H.J. Zwart; Open Loop Stabilizability of Unitary Groups, pp. 1100-1104 in *Proceedings of the second European Control Conference*, June 28-July 1, 1993, Groningen, The Netherlands, 1993.

11. H. Zwart and R. Rebarber; Interpolation theory for control of infinite-dimensional systems, in *Proceedings of the Second International Symposium on Methods and Models in Automation and Robotics*, August 30 – 2 September 1995, Miedzyzdroje, Poland, pp. 43–48, 1995.
12. H. Zwart, G. Weiss, M. Weiss and R.F. Curtain; An example in optimal control, in *Proceedings 4th IEEE Mediterranean Symposium on Directions in Control & Automation*, June 10–13, 1996, Chania, Krete, Greece, pp. 607–611, 1996.
13. B. Jacob and H. Zwart; Optimizability of Infinite-dimensional systems, in *Proceedings of the Third International Symposium on Methods and Models in Automation and Robotics*, 10–13 September 1996, Miedzyzdroje, Poland, pp. 141–146, 1996.
14. S. Townley, R. Rebarber, H. Zwart and D. Oates; Stabilization of infinite-dimensional systems by generalized sampled-data control, in *Proceedings of the Third International Symposium on Methods and Models in Automation and Robotics*, 10–13 September 1996, Miedzyzdroje, Poland, pp. 127–132, 1996.
15. B. Jacob and H. Zwart; On lack of optimizability, *Proceedings ECC-97*, G. Bastin and M. Gevers (Eds), FR-A E3, 1997.
16. M. Hermle, W. Schiehlen, H. Zwart, and R. Curtain; Robust controllers for dead-time systems, in *proceedings COC'97*, St. Petersburg, pp. 539–544, 1997.
17. H. Zwart and B. Jacob; Exact controllability for non-diagonal systems with one-dimensional input operators, in S. Domek, Z. Emirsajlow, R. Kaszynski (Eds) *Proceedings of the Fourth International Symposium on Methods and Models in Automation and Robotics*, 26 – 29 August, 1997, Miedzyzdroje, Poland, pp. 103–108, 1997.
18. H. Zwart, G. Weiss and G. Meinsma; Prediction of a narrow band signal from measurement data, *Proceedings ICOTA-98*, Perth Australia, July, pp. 329–336, 1998.
19. G. Meinsma, H. Zwart; The standard \mathcal{H}_∞ control problem for dead-time systems, in *Proceedings of Mathematical Theory of Networks and Systems '98*, pp. 317-320. 1999.
20. B. Jacob and H. Zwart. Properties of the realization of inner functions, *Proceedings ECC-99*, Session CA-6.
21. H. Zwart. When is a semigroup a group? *Proceedings ECC-99*, Session CA-6.
22. H. Zwart. P.O.D. for linear systems. *Proceedings of the ECC-01*, Session Th-A08.
23. O. Iftime and H. Zwart. H_∞ control for the Wiener algebra. *Proceedings of the ECC-01*, Session Th-E08.
24. H. Zwart and B.Z. Guo. Stability and boundedness of continuous- and discrete-time systems. *Proceedings of the MTNS 2002*, Session THM2.
25. H. Zwart. Transfer functions for infinite-dimensional systems. *Proceedings of the MTNS 2004*, Session MP5.
26. D. Matignon and H. Zwart. Standard diffusive systems are well-posed linear systems. *Proceedings of the MTNS 2004*, Session MP5.

27. B. Jacob and H. Zwart. A functional analytic approach towards nonlinear dissipative wellposed systems. *Proceedings of the MTNS 2004*, Session FA5.
28. Y. Le Gorrec, H. Zwart, and B. Maschke. A semigroup approach to port Hamiltonian systems associated with linear skew symmetric operator. *Proceedings of the MTNS 2004*, Session FA5.
29. J.A. Villegas, Y. Le Gorrec, Y. and H. Zwart, (2005) Boundary Control Systems and the System Node. In: *Proceedings of the 16th IFAC World Congress*, 3-8 July 2005, Prague, Czech Republic.
30. J.A. Villegas, H. Zwart, Y. Le Gorrec, and B.M.J. Maschke, B.M.J. (2005) Stability and Stabilization of a Class of Boundary Control Systems. In: *Proceedings of the 44th IEEE Conference on Decision and Control and European Control Conference ECC*, 12-15 Dec 2005, Seville, Spain.
31. J.A. Villegas, H. Zwart, and A.J. van der Schaft, A.J. (2005) Port Representations of the Telegrapher's Equations. In: *16th IFAC World Congress*, 3-8 July 2005, Prague, Czech Republic.
32. B. Jacob, and H. Zwart, (2006) On Approximate Observability of Strongly Stable Systems. In: *17th International Symposium on Mathematical Theory of Networks and Systems*, 24-28 Jul 2006, Kyoto, Japan. pp. 305-308.
33. M. Kurula, A.J. van der Schaft, and H. Zwart,(2006) Composition of infinite-dimensional Dirac structures. In: *17th International Symposium on Mathematical Theory of Networks and Systems*, 24-28 Jul 2006, Kyoto, Japan. pp. 27-32.
34. Y. Le Gorrec, B.M.J. Maschke, J.A. Villegas, and H. Zwart,(2006) Dissipative boundary control systems with application to distributed parameters reactors. In: *Proceedings of the 2006 IEEE International Conference on Control Applications*, 4-6 Oct 2006, Munich, Germany. pp. 668 -673.
35. S. van Mourik, H. Zwart, and K.J. Keesman, (2006) Climate control of a bulk storage room for foodstuffs. In: *Proceedings 5th MATHMOD*, 8-10 Feb 2006, Vienna, Austria.
36. D. Vries, K.J. Keesman and H. Zwart, (2006) Linear regressive model structures for estimation and prediction of compartmental diffusive systems. In: *Proceedings 5th MATHMOD*, 8-10 Feb 2006, Vienna, Austria.
37. D. Vries, K.J. Keesman and H. Zwart, (2006) Explicit linear regressive model structures for estimation, prediction and experimental design of compartmental diffusive systems. In: *14th IFAC Symposium on Systems Identification*, Newcastle, Australia, pp. 404-409,
38. H. Zwart, Y. Le Gorrec, and B.M.J. Maschke, and J.A. Villegas, (2006) Well-posedness and regularity for a class of hyperbolic boundary control systems. In: *17th International Symposium on Mathematical Theory of Networks and Systems*, 24-28 Jul 2006, Kyoto, Japan. pp. 1379-1383.
39. K.J. Keesman, D. Vries, S. van Mourik and H. Zwart, (2007) Modelling and control of water disinfection process in annular photoreactors. In *Proceedings of the European Control Conference 2007, Kos, Greece*, 2-5 July 2007, Kos, Greece, 4778-4784.

40. S. van Mourik, H.J. Zwart, and K.J. Keesman. Switching control for post- harvest food storage. In *Modelling and Design of Control Systems in Agriculture. Agricontrol 2007*, Osijek, Croatia, 3–5 September 2007.
41. D. Vries, K.J. Keesman and H. Zwart, (2007) A Luenberger observer for an infinite dimensional bilinear system: A UV disinfection example. In *Proceedings of the 3rd Symposium on Systems, Structure and Control*, Foz do Iguassu, Brazil, October 17–19th.
42. R.F. Curtain, O.V. Iftime and H. Zwart, (2008) System theoretic properties of platoon-type systems. In *Proceedings of the 47th IEEE Conference on Decision and Control*, Cancun, Mexico, 9–11 Dec 2008, 1442–1447.
43. R.F. Curtain, O.V. Iftime and H. Zwart, (2009) LQR control for scalar finite and infinite platoons. In *Proceeding of “SYSTEMS THEORY : Modélisation, Analyse et Contrôle - Actes de la Conférence Internationale”*, Fes, Morocco, 25–28 May 2009, pp. 19–30.
44. F. Fatmawati and H. Zwart, (2009) Characterization of system theoretic properties for a class of spatially invariant systems. In *Proceeding of “SYSTEMS THEORY : Modélisation, Analyse et Contrôle - Actes de la Conférence Internationale”*, Fes, Morocco, 25–28 May 2009, pp. 441–448.
45. H. Heidari, H. Zwart, and A. Malek, Analysis of the three dimensional heat conduction in nano- or microscale. In *Proceedings of the 19th International Symposium on Mathematical Theory of Networks and Systems, MTNS 2010*, Budapest, Hungary, 5–9 July, 2010, pp. 1877–1882.
46. H. Zwart, An \mathcal{H}_∞ calculus of admissible operators. In *Proceedings of the 19th International Symposium on Mathematical Theory of Networks and Systems, MTNS 2010*, Budapest, Hungary, 5–9 July, 2010, pp. 1679–1683.
47. H. Zwart, Riesz basis for strongly continuous groups. In *Proceedings of the 19th International Symposium on Mathematical Theory of Networks and Systems, MTNS 2010*, Budapest, Hungary, 5–9 July, 2010, pp. 647–650.

Miscellaneous

1. H.J. Zwart and L. Nooitgedagt; Zeros for Discrete Spectral Systems with an application to the Disturbance Decoupling Problem. *Rapport TW-272*, Mathematisch Instituut, Rijksuniversiteit Groningen, 1986.
2. H. Zwart, R.F. Curtain and J. Bakema; Robust controllers for dead-time systems, in *Recent Results in Robust and Adaptive Control*, Proceeding EURACO workshop, 11–14 September 1995, Florence, Italy, pp. 233–251, 1995.
3. H. Zwart, M. Hermle and R.F. Curtain; Robust controllers for dead-time systems, Part two, in *Robust and Adaptive Control of Integrated Systems*, Proceeding EURACO workshop II, 16–18 October 1996, Herrsching, Germany, pp. 57–66, 1996.

4. C.R. Kuiper and H. Zwart; All solutions of the algebraic Riccati equation for the wave equation, Memorandum No. 1453, Faculteit der toegepaste wiskunde, Universiteit Twente, december 1997.
5. B. Jacob and H. Zwart; *Disproof of two conjectures of George Weiss* Memorandum No. 1546, Faculty of Mathematical Sciences, University of Twente, September 2000. Available at: <http://www.math.utwente.nl/publications/>
6. H. Zwart; *Sufficient conditions for admissibility* Memorandum No. 1547, Faculty of Mathematical Sciences, University of Twente, September 2000. Available at: <http://www.math.utwente.nl/publications/>
7. B.Z. Guo, H. Zwart and R.F. Curtain; *On the relation between stability of continuous- and discrete-time evolution via the Cayley transform*, Memorandum No. 1593, Faculty of Mathematical Sciences, University of Twente, November 2001. Available at: <http://www.math.utwente.nl/publications/>
8. B.Z. Guo and H. Zwart; *Riesz spectral systems* Memorandum No. 1594, Faculty of Mathematical Sciences, University of Twente, November 2001. Available at: <http://www.math.utwente.nl/publications/>
9. B. Jacob and H. Zwart; *A review on realization theory for infinite-dimensional systems*, available at <http://wwwhome.math.utwente.nl/~zwarthj/>, 2002.
10. H. Zwart, Boundedness and strong stability of C_0 -semigroups on a Banach space. *Ulmer Seminaire 2003*, pp. 380–383, 2003.
11. H. Zwart, On the estimate $\|(sI - A)^{-1}\| \leq M/\operatorname{Re}(s)$, *Ulmer Seminaire 2003*, pp. 384–388, 2003.
12. G. Golo, O.V. Iftime, H.J. Zwart, and A.J. van der Schaft; *Tools for analysis of Dirac structures on Hilbert spaces*, Memorandum No. 1729, Department of Applied Mathematics, University of Twente, July 2004. Available at: <http://www.math.utwente.nl/publications/>
13. Y. Le Gorrec, H.J. Zwart, and B. Maschke; *Dirac structures and boundary control systems associated with skew-symmetric differential operators*, Memorandum No. 1730, Department of Applied Mathematics, University of Twente, July 2004. Available at: <http://www.math.utwente.nl/publications/>
14. H. Zwart and B. Jacob, Local Growth for normal C_0 -semigroups, *Tübinger Berichte zur Functionalanalysis*, Vol. 15, 2005/2006, pp. 331–336.
15. S. van Mourik, B.J. Geurts, and H. Zwart, (2007) *Modelling and controller design for a UV disinfection plant*. Memorandum 1852 Department of Applied Mathematics, University of Twente, Enschede. ISSN 1874-4850. Available at: <http://www.math.utwente.nl/publications/>

16. S. van Mourik, H. Zwart, and K.J. Keesman, (2007) *Switching control for a class of nonlinear SISO systems with an application to post-harvest food storage*. Memorandum 1853 Department of Applied Mathematics, University of Twente, Enschede. ISSN 1874-4850. Available at: <http://www.math.utwente.nl/publications/>
17. S. van Mourik, H. Zwart, and K.J. Keesman, (2007) *Analytic control law for a food storage room*. Memorandum 1819 Department of Applied Mathematics, University of Twente, Enschede. ISSN 1874-4850. Available at:
<http://www.math.utwente.nl/publications/>
18. H. Zwart, Riesz basis for strongly continuous groups, arXiv:0808.3447 [math.FA], 2008.
19. H. Zwart, Admissible operators and \mathcal{H}_∞ calculus, arXiv:1001.3482v1 [math.FA], 2010.
20. H. Heidari and H. Zwart and A. Malek, (2010) *Controllability and stability of 3D heat conduction equation in a submicroscale thin film*. Memorandum 1917 Department of Applied Mathematics, University of Twente, Enschede. ISSN 1874-4850. Available at:
<http://www.math.utwente.nl/publications/>
21. N.C. Besseling and H. Zwart, (2011), *The growth of a semigroup and its Cayley transform*. Memorandum 1941, Department of Applied Mathematics, University of Twente, Enschede. ISSN 1874-4850. Available at:
<http://www.math.utwente.nl/publications/>