

1. Books, survey and expository papers (peer reviewed)

1. J. Prüss, R. Schnaubelt and Rico Zacher, *Mathematische Modelle in der Biologie. Deterministische homogene Systeme*. Birkhäuser, 2008.
2. R. Schnaubelt, *Semigroups for nonautonomous Cauchy problems*. In: K. Engel and R. Nagel, “One-Parameter Semigroups for Linear Evolution Equations,” Springer-Verlag, 2000, pp. 477–496.
3. R. Schnaubelt, *Well-posedness and asymptotic behaviour of non-autonomous linear evolution equations*. In: A. Lorenzi and B. Ruf (Eds.), “Evolution Equations, Semigroups and Functional Analysis,” Birkhäuser, 2002, pp. 311–338.
4. R. Schnaubelt, *Asymptotic behaviour of parabolic nonautonomous evolution equations*. In: M. Iannelli, R. Nagel and S. Piazzera (Eds.), “Functional Analytic Methods for Evolution Equations,” Springer-Verlag, 2004, pp. 401–472.
5. R. Schnaubelt, *Local wellposedness and long-time behavior of quasilinear Maxwell equations*. In: W. Dörfler, M. Hochbruck, J. Köhler, A. Rieder, R. Schnaubelt, C. Wieners: “Wave Phenomena: Mathematical Analysis and Numerical Approximation,” Oberwolfach Seminars **49**, Birkhäuser, 2023, pp. 71–159.

2. Research papers (peer reviewed)

6. F. Rübiger and R. Schnaubelt, *The spectral mapping theorem for evolution semigroups on spaces of vector-valued functions*. Semigroup Forum **52** (1996), 225–239.
7. F. Rübiger, A. Rhandi and R. Schnaubelt, *Perturbation and an abstract characterization of evolution semigroups*. J. Math. Anal. Appl. **198** (1996), 516–533.
8. G. Nickel and R. Schnaubelt, *An extension of Kato’s stability condition for nonautonomous Cauchy problems*. Taiwanese J. Math. **2** (1998), 483–496.
9. Y. Latushkin, T. Randolph and R. Schnaubelt, *Exponential dichotomy and mild solutions of nonautonomous equations in Banach spaces*. J. Dynam. Differential Equations **10** (1998), 489–510.
10. Nguyen Van Minh, F. Rübiger and R. Schnaubelt, *Exponential stability, exponential expansiveness, and exponential dichotomy of evolution equations on the half-line*. Integral Equations Operator Theory **32** (1998), 332–353.
11. F. Rübiger and R. Schnaubelt, *Absorption evolution families and exponential stability of non-autonomous diffusion equations*. Differential Integral Equations **12** (1999), 41–65.
12. R. Schnaubelt, *Sufficient conditions for exponential stability and dichotomy of evolution equations*. Forum Math. **11** (1999), 543–566.
13. A. Rhandi and R. Schnaubelt, *Asymptotic behaviour of a non-autonomous population equation with diffusion in L^1* . Discrete Contin. Dyn. Syst. **5** (1999), 663–683.
14. Y. Latushkin and R. Schnaubelt, *The spectral mapping theorem for evolution semigroups on L^p associated with strongly continuous cocycles*. Semigroup Forum **59** (1999), 404–414.

15. Y. Latushkin and R. Schnaubelt, *Evolution semigroups, translation algebras, and exponential dichotomy of cocycles*. J. Differential Equations **159** (1999), 321–369.
16. G. Lumer and R. Schnaubelt, *Local operator methods and time dependent parabolic equations on non-cylindrical domains*. In: M. Demuth, E. Schrohe, B.-W. Schulze and J. Sjöstrand (Eds.), “Evolution Equations, Feshbach Resonances, Singular Hodge Theory,” Mathematical Topics Vol. 16, Wiley, 1999, pp. 58–130.
17. R. Schnaubelt and J. Voigt, *The non-autonomous Kato class*. Arch. Math. **72** (1999), 454–460.
18. F. Rábiger, A. Rhandi, R. Schnaubelt and J. Voigt, *Non-autonomous Miyadera perturbations*. Differential Integral Equations **13** (2000), 341–368.
19. G. Metafune, A. Rhandi and R. Schnaubelt, *Spectrum of the infinite-dimensional Laplacian*. Archiv Math. **75** (2000), 280–282.
20. R. Schnaubelt, *A sufficient condition for exponential dichotomy of parabolic evolution equations*. In: G. Lumer and L. Weis (Eds.), “Evolution Equations and their Applications in Physical and Life Sciences (Proceedings Bad Herrenalb, 1998),” Marcel Dekker, 2001, pp. 149–158.
21. R. Schnaubelt, *Asymptotically autonomous parabolic evolution equations*. J. Evol. Equ. **1** (2001), 19–37.
22. J. Prüss and R. Schnaubelt, *Solvability and maximal regularity of parabolic evolution equations with coefficients continuous in time*. J. Math. Anal. Appl. **256** (2001), 405–430.
23. G. Lumer and R. Schnaubelt, *Time-dependent parabolic problems on non-cylindrical domains with inhomogeneous boundary conditions*. J. Evol. Equ. **1** (2001), 291–309.
24. G. Gühring, F. Rábiger and R. Schnaubelt, *A characteristic equation for nonautonomous partial functional differential equations*. J. Differential Equations **181** (2002), 439–462.
25. G. Metafune, J. Prüss, A. Rhandi and R. Schnaubelt, *The domain of the Ornstein–Uhlenbeck operator on an L^p -space with invariant measure*. Ann. Scuola Norm. Sup. Pisa Cl. Sci. (5) **1** (2002), 471–485.
26. R. Schnaubelt, *Feedbacks for non-autonomous regular linear systems*. SIAM J. Control Optim. **41** (2002), 1141–1165.
27. L. Maniar and R. Schnaubelt, *Almost periodicity of inhomogeneous parabolic evolution equations*. In: G. Ruiz Goldstein, R. Nagel and S. Romanelli (Eds.), “Recent Contributions to Evolution Equations”, Marcel Dekker, 2003, pp. 299–318.
28. R. Schnaubelt, *Parabolic evolution equations with asymptotically autonomous delay*. Trans. Amer. Math. Soc. **356** (2004), 3517–3543.
29. A. Bátkai and R. Schnaubelt, *Asymptotic behaviour of parabolic problems with delays in the highest order derivatives*. Semigroup Forum **69** (2004), 369–399.
30. Y. Latushkin, T. Randolph and R. Schnaubelt, *Regularization and frequency-domain stability of well-posed control systems*. Math. Control Signals Systems **17** (2005), 128–151.
31. G. Metafune, J. Prüss, A. Rhandi and R. Schnaubelt, *L^p -regularity for elliptic operators with unbounded coefficients*. Adv. Differential Equations **10** (2005), 1131–1164.
32. G. Metafune, D. Pallara, J. Prüss and R. Schnaubelt, *L^p -theory for elliptic operators on \mathbb{R}^n with singular coefficients*. Z. Anal. Anwendungen **24** (2005), 497–521.

33. D. Di Giorgio, A. Lunardi and R. Schnaubelt, *Optimal regularity and Fredholm properties of abstract parabolic operators in L^p spaces on the real line*. Proc. London Math. Soc. **91** (2005), 703–737.
34. G. Metafune and R. Schnaubelt, *The domain of the Schrödinger operator $-\Delta + x^2y^2$* . Note Mat. **25** (2005/06), 97–103.
35. J. Prüss, A. Rhandi and R. Schnaubelt, *The domain of elliptic operators on $L^p(\mathbb{R}^d)$ with unbounded drift coefficients*. Houston J. Math. **32** (2006), 563–576.
36. R. Schnaubelt, *Exponential and polynomial dichotomies of operator semigroups in Banach spaces*. Studia Math. **175** (2006), 121–138.
37. A. Bátkai, K.–J. Engel, J. Prüss and R. Schnaubelt, *Polynomial asymptotic stability of operator semigroups*. Math. Nachr. **279** (2006), 1425–1440.
38. Y. Latushkin, J. Prüss and R. Schnaubelt, *Stable and unstable manifolds for quasilinear parabolic systems with fully nonlinear boundary conditions*. J. Evol. Equ. **6** (2006), 537–576.
39. B. Jacob and R. Schnaubelt, *Observability of polynomially stable systems*. Systems Control Lett. **56** (2007), 277–284.
40. L. Maniar and R. Schnaubelt, *The Fredholm alternative for parabolic evolution equations with inhomogeneous boundary conditions*. J. Differential Equations **235** (2007), 308–339.
41. Y. Latushkin, A. Pogan and R. Schnaubelt, *Dichotomy and Fredholm properties of evolution equations*. J. Operator Theory **58** (2007), 387–414.
42. S. Hadd, A. Rhandi and R. Schnaubelt, *Feedbacks for time varying regular linear systems with input and state delays*. IMA J. Math. Control Inform. **25** (2008), 85–110.
43. L. Maniar and R. Schnaubelt, *Robustness of Fredholm properties of parabolic evolution equations under boundary perturbations*. J. Lond. Math. Soc. (2) **77** (2008), 558–580.
44. Y. Latushkin, J. Prüss and R. Schnaubelt, *Center manifolds and dynamics near equilibria of quasilinear parabolic systems with fully nonlinear boundary conditions*. Discrete Contin. Dyn. Syst. Ser. B **9** (2008), 595–633.
45. J. Prüss, R. Schnaubelt and Rico Zacher, *Global asymptotic stability of equilibria in models for virus dynamics*. Math. Model. Nat. Phenom. **3** (2008), 126–142.
46. M. Hieber, L. Lorenzi, J. Prüss, A. Rhandi and R. Schnaubelt, *Global properties of generalized Ornstein–Uhlenbeck operators on $L^p(\mathbb{R}^N, \mathbb{R}^N)$ with more than linearly growing coefficients*. J. Math. Anal. Appl. **350** (2009), 100–121.
47. M. Baroun, L. Maniar and R. Schnaubelt, *Almost periodicity and Fredholmity of parabolic evolution equations with inhomogeneous boundary values*. Integral Equations Operator Theory **65** (2009), 169–193.
48. G. Metafune, D. Pallara, P.J. Rabier and R. Schnaubelt, *Uniqueness for elliptic operators on $L^p(\mathbb{R}^N)$ with unbounded coefficients*. Forum Math. **22** (2010), 583–601.
49. M. Geissert, L. Lorenzi and R. Schnaubelt, *L^p -regularity for parabolic operators with unbounded time-dependent coefficients*. Ann. Mat. Pura Appl. (4) **189** (2010), 303–333.
50. R. Schnaubelt and M. Veraar, *Structurally damped plate and wave equations with random point force in arbitrary space dimensions*. Differential Integral Equations **23** (2010), 957–988.

51. R. Schnaubelt and G. Weiss, *Two classes of passive time-varying well-posed linear systems*. Math. Control Signals Systems **21** (2010), 265–301.
52. R. Schnaubelt and M. Veraar, *Stochastic equations with boundary noise*. In: J. Escher et.al. (Eds.), “Parabolic Problems: Herbert Amann Festschrift,” Birkhäuser, 2011, pp. 609–629.
53. S. Fornaro, G. Metafuno, D. Pallara and R. Schnaubelt, *Degenerate operators of Tricomi type in L^p -spaces and in spaces of continuous functions*. J. Differential Equations **252** (2012), 1182–1212.
54. M. Meyries and R. Schnaubelt, *Interpolation, embeddings and traces of anisotropic fractional Sobolev spaces with temporal weights*. J. Funct. Anal. **262** (2012), 1200–1229.
55. L. Maniar and R. Schnaubelt, *Stability of periodic solutions to parabolic problems with nonlinear boundary conditions*. Adv. Differential Equations **17** (2012), 557–604.
56. M. Meyries and R. Schnaubelt, *Maximal regularity with temporal weights for parabolic problems with inhomogeneous boundary conditions*. Math. Nachr. **285** (2012), 1032–1051.
57. S. Fornaro, G. Metafuno, D. Pallara and R. Schnaubelt, *One-dimensional degenerate operators in L^p -spaces*. J. Math. Anal. Appl. **402** (2013), 308–318.
58. M. Baroun, B. Jacob, L. Maniar and R. Schnaubelt, *Semilinear observation systems*. Systems Control Lett. **62** (2013), 924–929.
59. R. Johnson, Y. Latushkin and R. Schnaubelt, *Reduction principle and asymptotic phase for center manifolds of parabolic systems with nonlinear boundary conditions*. J. Dynam. Differential Equations **26** (2014), 243–266.
60. R. Schnaubelt, *Center manifolds and attractivity for quasilinear parabolic problems with fully nonlinear dynamical boundary conditions*. Discrete Contin. Dyn. Syst. Ser. A **35** (2015), 1193–1230.
61. S. Fornaro, G. Metafuno, D. Pallara and R. Schnaubelt, *Second order elliptic operators in L^2 with first order degeneration at the boundary and outward pointing drift*. Commun. Pure Appl. Anal. **14** (2015), 407–419.
62. M. Hochbruck, T. Jahnke and R. Schnaubelt, *Convergence of an ADI splitting for Maxwell's equations*. Numer. Math. **129** (2015), 535–561.
63. D. Hundertmark, P. Kunstmann and R. Schnaubelt, *Stability of the dispersion managed solitons for vanishing average dispersion*. Archiv Math. **104** (2015), 283–288.
64. R. Denk and R. Schnaubelt, *A structurally damped plate equation with Dirichlet-Neumann boundary conditions*. J. Differential Equations **259** (2015), 1323–1353.
65. E.M. Ait Benhassi, S. Boulite, L. Maniar and R. Schnaubelt, *Polynomial internal and external stability of wellposed linear systems*. In: W. Arendt, R. Chill and Y. Tomilov (Eds.), “Operator Semigroups meet Complex Analysis, Harmonic Analysis and Mathematical Physics (Proceedings Herrnhut 2013),” Birkhäuser, 2015, pp. 1–16.
66. W. Dörfler, H. Gerner and R. Schnaubelt, *Local wellposedness of a quasilinear wave equation*. Appl. Anal. **95** (2016), 2110–2123.
67. L. Lorenzi, A. Lunardi and R. Schnaubelt, *Strong convergence of solutions to nonautonomous Kolmogorov equations*. Proc. Amer. Math. Soc. **144** (2016), 3903–3917.
68. J. Eilinghoff, R. Schnaubelt and K. Schratz, *Fractional error estimates of splitting schemes for the nonlinear Schrödinger equation*. J. Math. Anal. Appl. **442** (2016), 740–760.

69. R. Schnaubelt, *Stable and unstable manifolds for quasilinear parabolic problems with fully nonlinear dynamical boundary conditions*. Adv. Differential Equations **22** (2017), 541–592.
70. L. Maniar, M. Meyries and R. Schnaubelt, *Null controllability for parabolic problems with dynamic boundary conditions*. Evol. Equ. Control Theory **6** (2017), 381–407.
71. R. Schnaubelt and M. Veraar, *Regularity of stochastic Volterra equations by functional calculus methods*. J. Evol. Equ. **17** (2017), 523–536.
72. Y. Latushkin, R. Schnaubelt and Xinyao Yang, *Stable foliations near a traveling front for reaction diffusion systems*. Discrete Contin. Dyn. Syst. Ser. B. **22** (2017), 3145–3165.
73. T. Jahnke, M. Mikl and R. Schnaubelt, *Strang splitting for a semilinear Schrödinger equation with damping and forcing*. J. Math. Anal. Appl. **455** (2017), 1051–1071.
74. M. Hochbruck, T. Pažur and R. Schnaubelt, *Error analysis of implicit Runge–Kutta methods for quasilinear hyperbolic evolution equations*. Numer. Math. **138** (2018), 557–579.
75. P. D’Ancona, S. Nicaise and R. Schnaubelt, *Blow-up for nonlinear Maxwell equations*. Electron. J. Differential Equations (2018), paper no. 73, 9 pp.
76. J. Eilinghoff and R. Schnaubelt, *Error analysis of an ADI splitting scheme for the inhomogeneous Maxwell equations*. Discrete Contin. Dyn. Syst. Ser. A **38** (2018), 5685–5709.
77. L. Rzepnicki and R. Schnaubelt, *Polynomial stability for a system of coupled strings*. Bull. London Math. Soc. **50** (2018), 1117–1136.
78. J. Eilinghoff, T. Jahnke and R. Schnaubelt, *Error analysis of an energy preserving ADI splitting scheme for the Maxwell equations*. SIAM J. Numer. Anal. **57** (2019), 1036–1057.
79. I. Lasiecka, M. Pokojovy and R. Schnaubelt, *Exponential decay of quasilinear Maxwell equations with interior conductivity*. NoDEA Nonlinear Differential Equations Appl. **26** (2019), paper no. 51, 34 pp.
80. S. Herr, T. Lamm and R. Schnaubelt, *Biharmonic wave maps into spheres*. Proc. Amer. Math. Soc. **148** (2020), 787–796.
81. M. Pokojovy and R. Schnaubelt, *Boundary stabilization of quasilinear Maxwell equations*. J. Differential Equations **268** (2020), 784–812.
82. S. Herr, T. Lamm, T. Schmid and R. Schnaubelt, *Biharmonic wave maps: Local wellposedness in high regularity*. Nonlinearity **33** (2020), 2270–2305.
83. R. Schnaubelt and M. Spitz, *Local wellposedness of quasilinear Maxwell equations with absorbing boundary conditions*. Evol. Equ. Control Theory **10** (2021), 155–198.
84. S. Fornaro, G. Metafuno, D. Pallara and R. Schnaubelt, *L^p -spectrum of degenerate hypoelliptic Ornstein-Uhlenbeck operators*. J. Funct. Anal. **280** (2021), paper no. 108807, 22 pp.
85. R. Schnaubelt and M. Spitz, *Local wellposedness of quasilinear Maxwell equations with conservative interface conditions*, Commun. Math. Sci. **20** (2022), 2265–2313.
86. P. D’Ancona and R. Schnaubelt, *Global Strichartz estimates for an inhomogeneous Maxwell system*. Comm. Partial Differential Equations **47** (2022), 630–675.
87. S. Fornaro, G. Metafuno, D. Pallara and R. Schnaubelt, *Multi-dimensional degenerate operators in L^p -spaces*. Commun. Pure Appl. Anal. **21** (2022), 2115–2145.
88. R. Schippa and R. Schnaubelt, *On quasilinear Maxwell equations in two dimensions*. Pure Appl. Anal. **4** (2022), 313–365.

89. T. Dohnal, R. Schnaubelt and D. Tietz, *Rigorous envelope approximation for interface wave-packets in Maxwell's equations with 2D localization*. SIAM J. Math. Anal. **55** (2023), 6898–6939.
90. S. Ohrem, W. Reichel and R. Schnaubelt, *Well-posedness for a (1+1)-dimensional wave equation with quasilinear boundary condition*. Nonlinearity **36** (2023), 6712–6746.
91. R. Schippa and R. Schnaubelt, *Strichartz estimates for Maxwell equations in media: the structured case in two dimensions*. Archiv Math. **121** (2023), 425–436.
92. R. Schippa and R. Schnaubelt, *Strichartz estimates for Maxwell equations in media: the fully anisotropic case*. J. Hyperbolic Differ. Equ. **20** (2023), 917–966.
93. R. Nutt and R. Schnaubelt, *Normal trace inequalities and decay of solutions to the non-linear Maxwell system with absorbing boundary*. J. Math. Anal. Appl. **532** (2024), paper no. 127915, 35 pp.
94. V. Müller, R. Schnaubelt and Y. Tomilov, *On growth and instability for semilinear evolution equations: an abstract approach*. Math. Ann. **389** (2024), 3885–3933.
95. M. Ruff and R. Schnaubelt, *Error analysis of the Lie splitting for semilinear wave equations with finite-energy solutions*. Discrete Contin. Dyn. Syst. **45** (2025), 2969–3008.
96. S. Nicaise and R. Schnaubelt, *Maxwell equations with localized internal damping: strong and polynomial stability*. To appear in Commun. Anal. Mech.

3. Preprints

97. C. Bresch and R. Schnaubelt, *Local wellposedness of Maxwell systems with scalar-type retarded material laws*.
98. R. Schnaubelt, *Error analysis of the implicit Euler scheme for the Maxwell–Kerr system*.
99. C. Bresch and R. Schnaubelt, *Local wellposedness of Maxwell systems with retarded material laws in low regularity*.