Bibliography

[1] *Brockhaus Enzyklop"adie in 24 B"anden.* F.A. Brockhaus, Mannheim, 19.te Auflage, 1986.

[2] R. A. ADAMS. *Sobolev Spaces.* Academic Press, New York, 1975.

[3] H. W. ALT. *Lineare Funktionalanalysis.* Springer Verlag, Berlin, 1999.

[4] H. AMANN. Fixed Point Equations and Nonlinear Eigenvalue Problems in Ordered Banach Spaces. *SIAM Reviews*, 18(4), 620-709, 1976.

[5] V. ARNOLD. *Mathematical Methods of Classical Mechanics.* Springer Verlag, New York Heidelberg Berlin, 1980.

[6] V. ARNOL'D. *Geometrical Methods in the Theory of Ordinary Differential Equations.* Springer Verlag, New York Heidelberg Berlin, 1983.

[7] V. ARNOLD & A. AVEZ. *Problèmes Ergodique de la Méchanique Classique.* Gauthier-Villars, Paris, 1967.

[8] J. M. BALL. Convexity conditions and existence theorems in nonlinear elasticity. *Arch. Rat. Mech. Anal.*, 63, 367-403, 1977.

[9] T. BARTSCH. *Topological Methods for Variational Problems with Symmetries*, Lecture Notes in Mathematics *1560*. Springer Verlag, 1993.

[10] A. E. BERRIMAN. The babylonian quadratic equation. *The Mathematical Gazette*, 40(333), 185-, 1956.

[11] K. DEIMLING. *Nichtlineare Gleichungen und Abbildungsgrade.* Springer-Verlag, Berlin Heidelberg, 1974.

[12] K. DEIMLING. *Ordinary differential equations in Banach spaces.* Springer-Verlag, Berlin Heidelberg, 1977.

[13] K. DEIMLING. *Nonlinear functional analysis.* Springer Verlag, Berlin, 1985.

[14] Y. DU. *Order Structure and Topological Methods in Nonlinear Partial Differential Equations.* World Scientific, 2006.

[15] L. C. EVANS. *Partial Differential Equations*, Graduate Studies in Mathematics *19*. American Mathematical Society, Providence RI, 1998.

[16] A. FRIEDMAN. *Partial Differential Equatiuons.* Holt Rinehart and Winston, New York, 1969.

[17] L. FÜHRER. Ein elementarer analytischer beweis zur eindeutigkeit des abbildungsgrades in $\mathbb{R}^n$. *Math. Nachr.*, 54, 259-267, 1972.

[18] E. GALOIS. *Œuvres mathématiques, publiées en 1897, suivies d'une notice sur Évariste Galois et la théorie des équations algébriques, par G. Verriest. 2e édition revue et corrigée.* , 1951.

[19] D. GILBARG & N. S. TRUDINGER. *Elliptic Partial Differential Operators of second Order*, Grundl. d. Math. Wiss. *224*. Springer Verlag, Berlin Heidelberg New York, 1983.

[20] S. Gottwald, H.-J. Ilgauds & K.-H. Schlote, editors. *Lexikon bedeutender Mathematiker.* Verlag Harri Deutsch, Leipzig, Thun, 1990.

[21] P. HARTMAN. *Ordinary Differential Equations.* John Wiley & Sons, Coorp., 1964.

[22] D. HENRY. *Geometric Theory of Semilinear Parabolic Equations*, Lecture Notes in Mathematics *840*. Springer Verlag, 1981.

[23] T. KATO. *Perturbation Theory for Linear Operators*, Grundl. d. math. Wiss. *132*. Springer Verlag, 1976.

[24] M. KRASNOSELSKI. *Positive Solutions of Operator Equations.* Noordhoff LTD, Groningen, 1964.

[25] Y. A. KUZNETSOV. *Elements of Appliedf Bifurcation Theory*, Applied Math. Sciences *112*. Springer Verlag, New York, 2004.

[26] R. LAUTERBACH. Gewöhnliche Differentialgleichungen. Skript zur Vorlesung, Universität Hamburg, 1999. http://www.math.uni-hamburg/lauterbach/scripts/ode.html.

[27] R. LAUTERBACH. Funktionalanalysis. Skript zur Vorlesung, Universität Hamburg, SS 2010. http://www.math.uni-hamburg/lauterbach/scripts/fa.html.

[28] R. LAUTERBACH. Partielle Differentialgleichungen. Skript zur Vorlesung, Universität Hamburg, WS 2010/11. http://www.math.uni-hamburg/lauterbach/scripts/pde1011.html.

[29] J. W. MILNOR. *Topology from the Differentiable Viewpoint*. The University Press of Virginia, 1965.

[30] J. PALIS,JR. & W. DE MELO. *Geometric Theory of Dynamical Systems*. Springer Verlag, New York, 1982.

[31] P. H. RABINOWITZ. Some global results for nonlinear eigenvalue problems. *J. Funct. Anal.*, 7, 487-513, 1971.

[32] W. RUDIN. *Functional Analysis*. Mc Graw Hill, Inc, New York, 1973.

[33] W. A. STRAUSS. Steady Water Waves. *Bull. Am. Math. Soc*, 47(4), 671-694, 2010.

[34] M. STRUWE. *Variational Methods*, Ergebnisse der Mathematik und ihrer Grenzgebiete *34*. Springer Verlag, Heidelberg, 1990.

[35] R. TEMAN. *Navier-Stokes Equation*, Studies in Mathematics and its Applications *2*. North-Holland, Amsterdam, 1979.

[36] R. TEMAN. *Infinite-dimensional dynamical systems in mechanics and physics*, Applied Mathematical Sciences *68*. Springer-Verlag, New York, 1988.

[37] F. W. WARNER. *Foundations of Differentiable Manifolds and Lie Groups*. Scott Foresman and Company, Glenview, IL, 1971.

[38] D. WERNER. *Funktionalanalysis.* Springer Verlag, Berlin Heidelberg, 1997.

[39] K. YOSIDA. *Functional Analysis*, Grundl. d. math. Wissenschaften *123.* Springer Verlag, Berlin Heidelberg New York, 1978.

[40] E. ZEIDLER. *Nonlinear Functional Analysis and its Applications III - Variational Methods and Optimization.* Springer Verlag, Berlin Heidelberg New York, 1985.

[41] E. ZEIDLER. *Nonlinear Functional Analysis and its Applications IV - Applications to Mathematical Physics.* Springer Verlag, Berlin Heidelberg New York, 1988.

[42] E. ZEIDLER. *Nonlinear Functional Analysis and its Applications IIA - Linear Monotone Operators.* Springer Verlag, Berlin Heidelberg New York, 1990.

[43] E. ZEIDLER. *Nonlinear Functional Analysis and its Applications IIB - Nonlinear Monotone Operators.* Springer Verlag, Berlin Heidelberg New York, 1990.

[44] E. ZEIDLER. *Nonlinear Functional Analysis and its Applications I - Fixed Point Theorems.* Springer Verlag, Berlin Heidelberg New York, 1993.

[45] E. ZEIDLER. *Applied Functional Analysis. Applications to Mathematical Physics*, Appl. Math. Sciences *108.* Springer Verlag, Berlin Heidelberg New York, 1995.

[46] E. ZEIDLER. *Applied Functional Analysis. Main principles and their applications*, Appl. Math. Sciences *109.* Springer Verlag, Berlin Heidelberg New York, 1995.