

Bibliography

- [1] Adams, R. A., *Sobolev spaces*, Academic Press, Inc., New York, 1975.
- [2] Alexander, J. C., *Fixed Point Theory*, Lecture Notes in Mathematics № 886, Springer Verlag, Berlin–New York, 1981.
- [3] Amann, H., *Ordinary Differential Equations*, Walter de Gruyter, Berlin–New York, 1990.
- [4] Ambrosetti, A. & Prodi, G., *A Primer of Nonlinear Analysis*, Cambridge University Press, Cambridge, 1993.
- [5] Appel, J. & Zabrejko, P. P., *Nonlinear Superposition Operators*, Cambridge University Press, Cambridge, 1990.
- [6] Aubin, J. P. & Ekeland, I., *Applied Nonlinear Analysis*, John Wiley & Sons, New York, 1984.
- [7] Berkovitz, L. D., *Optimal Control Theory*, Springer Verlag, Berlin–New York, 1974.
- [8] Bourbaki, N., *Éléments de Mathématique*, vol. Livre VI, series *Intégration*, Hermann et C^{ie}, Paris, 1952.
- [9] Browder, F. E., *Problèmes Nonlinéaires*, Les presses de l'Université de Montréal, Montréal, 1966.
- [10] Cesari, L., *Dynamical Systems*, vol. I, Academic Press, Inc., New York, 1976.
- [11] Citlanadze, E. S., “*Existence theorems for minimax points in Banach spaces*”, Trudy Moskov. Mat. Obšč. **3** (1953), 235–274, in Russian.
- [12] Conway, J. B., *A Course in Functional Analysis*, Springer Verlag, Berlin–New York, 1990.
- [13] Crandall, M. & Rabinowitz, P. H., “*Bifurcation from simple eigenvalues*”, Journal of Functional Analysis **8** (1971), 321–340.
- [14] Dieudonné, J., *Foundations of Modern Analysis*, Academic Press, Inc., New York–London, 1960.

- [15] Drábek, P., "Continuity of Nemyckij's operator in Hölder spaces", *Comment. Math. Univ. Carolinæ* **16** (1975), № 1, 37–57.
- [16] Drábek, P., *Solvability and Bifurcations of Nonlinear Equations*, Pitman Research Notes in Mathematical Series № 264, Longman Scientific & Technical, Harlow, 1992.
- [17] Dugundji, J., *Topology*, Brown Publishing, 1989.
- [18] Dunford, N. & Schwartz, J. T., *Linear Operators*, vol. Part I, series *General Theory*, Interscience Publishing, New York–London–Sydney–Toronto, 1958.
- [19] Dunford, N. & Schwartz, J. T., *Linear Operators*, vol. Part II, Interscience Publishing, New York–London–Sydney–Toronto, 1963.
- [20] Evans, L. C., *Partial Differential Equations*, American Mathematical Society, Providence, Rhode Island, 1998.
- [21] Fitzpatrick, P. M., "Homotopy, linearization, and bifurcation", *Nonlinear Anal.* **12** (1988), 171–184.
- [22] Folland, G., *A Course in Abstract Harmonic Analysis*, CRC Press, Boca Raton, Florida, 1995.
- [23] Fučík, S., *Solvability of Nonlinear Equations and Boundary Value Problems*, D. Reidel Publishing Company, Dordrecht, Holland, 1980.
- [24] Fučík, S. & Kufner, A., *Nonlinear Differential Equations*, Elsevier, Amsterdam–Oxford–New York, 1980.
- [25] Fučík, S. & Nečas, J., "Ljusternik–Schnirelmann theorem and nonlinear eigenvalue problems", *Math. Nachr.* **53** (1972), 277–289.
- [26] Fučík, S., Nečas, J., Souček, J., & Souček, V., *Spectral Analysis of Nonlinear Operators*, Lecture Notes in Mathematics № 346, Springer Verlag, Berlin–New York, 1973.
- [27] Gaines, R. E. & Mawhin, J., *Coincide Degree and Nonlinear Differential Equations*, Lecture Notes in Mathematics № 568, Springer Verlag, Berlin–New York, 1977.
- [28] Gilbarg, D. & Trudinger, N. S., *Elliptic Partial Differential Equations of Second Order*, Springer Verlag, Berlin–Heidelberg–New York, 2001.
- [29] Gripenberg, C., Londen, S. O., & Staffans, O., *Volterra Integral and Functional Equations*, Cambridge University Press, Cambridge, 1990.
- [30] Habala, P., Hájek, P., & Zizler, V., *Introduction to Banach Spaces*, vol. I. and II., Matfyzpress, Praha, 1996.

- [31] Halmos, P., *Finite-Dimensional Vector Spaces*, Van Nostrand, Princeton, New Jersey, 1960.
- [32] Hamilton, R. S., "The inverse function theorem of Nost and Moser", Bull. Amer. Math. Soc. **7** (1982), 65–222.
- [33] Hirsch, M. W., *Differential Topology*, Springer Verlag, Berlin–New York, 1976.
- [34] Izé, J. A., *Bifurcation Theory for Fredholm Operators*, Mem. Amer. Math. Soc. № 174, American Mathematical Society, Providence, Rhode Island, 1971.
- [35] Kato, T., *Perturbation Theory for Linear Operators*, Springer Verlag, Berlin–New York, 1966.
- [36] Kelley, J. L., *General Topology*, Van Nostrand, Princeton, New Jersey, 1957.
- [37] Krasnoselski, M. A., *Topological Methods in the Theory of Nonlinear Integral Equations*, Pergamon, Oxford, 1964.
- [38] Krasnoselski, M. A. & Zabreiko, P. P., *Geometric Methods of Nonlinear Analysis*, Springer Verlag, Berlin–New York, 1984.
- [39] Krawcewicz, W. & Wu, J., *Theory of Degrees with Applications to Bifurcations and Differential Equations*, John Wiley & Sons, New York, 1997.
- [40] Kufner, A., John, O., & Fučík, S., *Function Spaces*, Academia, Prague, 1975.
- [41] Landesman, E. N. & Lazer, A. C., "Nonlinear perturbations of linear elliptic boundary value problems at resonance", J. Math. Mech. **19** (1970), 609–623.
- [42] Lukeš, J., *Zápisky z funkcionální analýzy*, Karolinum, Praha, 1998 (in Czech).
- [43] Lusternik, L. & Sobolev, V., *Elements of Functional Analysis*, Moscow, 1965 (in Russian; English translation by John Wiley & Sons, New York 1974).
- [44] Mawhin, J., *Topological Degree Methods in Nonlinear Boundary Value Problems*, Regional Conference Series in Mathematics № 40, American Mathematical Society, Providence, Rhode Island, 1979.
- [45] Maz'ja, V. G., *Sobolev spaces*, Springer Verlag, Berlin–Heidelberg–New York–Tokyo, 1985.
- [46] Milnor, J., *Topology from the Differentiable Viewpoint*, University of Virginia Press, Charlottesville, 1965.
- [47] Moser, J., "A rapidly convergent iteration method and nonlinear partial differential equations I, II", Ann. Scuola Norm. Sup. Pisa Cl. Sci. **20** (1966), 265–315, 499–535.

- [48] Nečas, J., *Les méthodes directes en théorie des équations elliptiques*, Masson et Cie, Paris, 1967.
- [49] Nirenberg, L., *Topics in Nonlinear Functional Analysis*, Courant Institute, New York, 1974.
- [50] Protter, M. H. & Weinberger, H. F., *Maximum Principle in Differential Equations*, Prentice Hall, Englewood Cliff, 1967.
- [51] Rabinowitz, P. H., *Contribution in Nonlinear Functional Analysis*, Academic Press, Inc., New York, 1971.
- [52] Reed, M. & Simon, B., *Methods of Modern Mathematical Physics*, vol. IV, Academic Press, Inc., New York, 1978.
- [53] Rockefellar, R. T., *Convex Analysis*, Princeton University Press, Princeton, New Jersey, 1970.
- [54] Rudin, W., *Functional Analysis*, McGraw-Hill, New York, 1973.
- [55] Rudin, W., *Real and Complex Analysis*, McGraw-Hill, New York, 1974.
- [56] Runst, T. & Sickel, W., *Sobolev Spaces of Fractional Order, Nemytskij Operators and Nonlinear Partial Differential Equations*, Walter de Gruyter, Berlin-New York, 1996.
- [57] Sard, A., “*The measure of the critical set values of differential mappings*”, Bull. Amer. Math. Soc. **48** (1942), 883–890.
- [58] Sehgal, “*A fixed point theorem for mapping with a contractive iterate*”, Proc. Amer. Math. Soc. **23** (1969), 631–634.
- [59] Singer, I., *Best Approximation in Normed Linear Spaces by Elements of Linear Subspaces*, Springer Verlag, Berlin-New York, 1970.
- [60] Stará, J. & John, O., *Funkcionální analýza. Nelineární úlohy*, Státní pedagogické nakladatelství, Praha, 1986 (in Czech).
- [61] Stein, E. M., *Singular Integrals and Differentiability Properties of Functions*, Princeton University Press, Princeton, New Jersey, 1970.
- [62] Sternberg, S., *Lectures on Differential Geometry*, Prentice Hall, Englewood Cliff, 1965.
- [63] Triebel, H., *Theory of Function Spaces*, vol. I and II, Birkhäuser, Basel, 1983 and 1992.
- [64] Vejvoda, O. et al., *Periodic Solutions of Partial Differential Equations: Time Periodic Solutions*, Sijthoff Noorahoff, Alphen aan den Rijn, 1981.
- [65] Yosida, K., *Functional Analysis*, Springer Verlag, Berlin-New York, 1965.

- [66] Zeidler, E., *Nonlinear Functional Analysis and Its Applications*, vol. I, II/A, II/B, III and IV, Springer Verlag, New York, 1986.