

List of Publications (J. Appell)

A. Theses, Books and Monographs

1. APPELL J.: *Analytische Theorie des Abbildungsgrades für nichtkompakte Operatoren*, Diplomarbeit Freie Universität Berlin 1975
2. APPELL J.: *Approximierbare Operatoren in normierten und lokalkonvexen Räumen*, Dissertation Freie Universität Berlin 1978; Zbl. 404.47027
3. APPELL J.: *Untersuchungen zur Theorie nichtlinearer Operatoren und Operatorgleichungen*, Habilitationsschrift Universität Augsburg 1985; Zbl. 573.47049
4. APPELL J., ZABREJKO P.P.: *Nonlinear Superposition Operators*, Cambridge Tracts in Mathematics, Vol. 95, Cambridge University Press, Cambridge 1990; Zbl. 701.47041; MR 91k:47168; Paperback reprint: Cambridge 2008; Zbl. 1156.47052
5. APPELL J., KALITVIN A.S., ZABREJKO P.P.: *Partial Integral Operators and Integro-Differential Equations*, Pure and Applied Mathematics, Vol. 230, M. Dekker, New York 2000; Zbl. 949.45006; MR 2001g:47098
6. APPELL J. (Editor): *Recent Trends in Nonlinear Analysis*, Festschrift for the Sixtieth Birthday of Alfonso Vignoli, Progress in Nonlinear Differential Equations and Their Applications, Vol. 40, Birkhäuser, Boston 2000; Zbl. 934.00032; MR 2000m:00051
7. APPELL J., DE PASCALE E., VIGNOLI A.: *Nonlinear Spectral Theory*, deGruter Series in Nonlinear Analysis and Applications, Vol. 10, deGruyter-Verlag, Berlin 2004; Zbl. 1056.47001; MR 2005f:47143; RZh 13B945K(03)
8. APPELL J., VÄTH M.: *Elemente der Funktionalanalysis*, Vieweg-Verlag, Wiesbaden 2005; Zbl. 1086.46001; MR 2371701
9. APPELL J., APPELL, K.: *Mengen – Zahlen – Zahlbereiche*, Spektrum Akademischer Verlag (Elsevier), Heidelberg 2005; Zbl. 1085.00001
10. APPELL J.: *Analysis in Beispielen und Gegenbeispielen*, Springer-Verlag, Heidelberg 2009; Zbl. 1168.26001; 2. Auflage: Berlin 2021; Zbl. 1466.26001
11. APPELL J., BANAŚ J., MERENTES N.: *Bounded Variation and Around*, deGruter Series in Nonlinear Analysis and Applications, Vol. 17, deGruyter-Verlag, Berlin 2014; Zbl. 1282.26001
12. APPELL J., NGUYEN T. H., PETROVA L. P., PRYADKO I. N.: *Systems with Nonsmooth Inputs*, deGruyter-Verlag, Berlin 2021; Zbl. 1479.37001
13. APPELL J., BUGAJEWSKA D., KASPRZAK P., REINWAND S.: *BV Type Spaces with Applications*, Lect. Notes Nonlin. Amal., Vol 20, J. Schauder Center, Toruń 2021; Zbl. 1500.47001
14. APPELL J., REINWAND S.: *Higher Analysis in Examples and Counterexamples*, Birkhäuser-Verlag, Cham (CH), in preparation
15. APPELL J., DOMINGUEZ BENAVIDES T., MERENTES DIAZ N.: *Curso de Análisis Matemático*, submitted

B. Journal Articles

1. Appell J.: Measures of noncompactness and approximation in locally convex spaces (Russian), Kachestv. Prikl. Metody Issled. Oper. Uravn. **4** (1979), 3-13; Zbl. 429.47018; MR 81k:46008; RZh 9B839(81)
2. APPELL J.: *Ein Abbildungsgrad für approximierbare Operatoren in Banachräumen*, Arch. Math. **34,3** (1980), 259-271; Zbl. 417.47026; MR 82d:47073
3. Appell J., Zabrejko P.P.: Condensing operators in the theory of implicit functions (Russian), Kachestv. Prikl. Metody Issled. Oper. Uravn. **5** (1980), 3-14; Zbl. 469.47042; MR 82j:58012; RZh 8B1065(82)
4. APPELL J.: *Implicit functions, nonlinear integral equations, and the measure of noncompactness of the superposition operator*, J. Math. Anal. Appl. **83,1** (1981), 251-263; Zbl. 495.45007; MR 83c:47084; RZh 4B1035(83)
5. APPELL J.: *On the solvability of nonlinear noncompact problems in function spaces with applications to integral and differential equations*, Boll. Unione Mat. Ital. **1-B** (1982), 1161-1177; Zbl. 511.47045; MR 84j:47099; RZh 3B876(84)
6. APPELL J.: *Upper estimates for superposition operators and some applications*, Ann. Acad. Sci. Fenn. A.I. **8** (1983), 149-160; Zbl. 489.47017; MR 84j:47079; RZh 3B1109(85)
7. APPELL J., ZABREJKO P.P.: *On a theorem of M.A. Krasnosel'skij*, Nonlin. Anal. TMA **7,7** (1983), 695-706; Zbl. 522.47056; MR 84m:47088; RZh 12B1175(85)
8. Appell J., Zabrejko P.P.: Sharp upper estimates for the superposition operator (Russian), Dokl. Akad. Nauk BSSR **27,8** (1983), 686-689; Zbl. 525.47020; MR 84j:47105; RZh 1B52(85)
9. APPELL J., DE PASCALE E.: *Su alcuni parametri connessi con la misura di non compattezza di Hausdorff in spazi di funzioni misurabili*, Boll. Unione Mat. Ital. **3-B** (1984), 497-515; Zbl. 507.46025; MR 86f:46024; RZh 4B68(86)
10. APPELL J., PERA M.P.: *Noncompactness principles in nonlinear operator approximation theory*, Pacific J. Math **115,1** (1984), 13-31; Zbl. 498.47024; MR 86i:47071; RZh 1B1050(86)
11. APPELL J.: *On the differentiability of the superposition operator in Hölder and Sobolev spaces*, Nonlin. Anal. TMA **8,10** (1984), 1253-1254; Zbl. 555.47037; RZh 5B1055(86)
12. APPELL J.: *Über eine Klasse symmetrischer idealer Funktionenräume nebst Anwendungen*, Comm. Math. Univ. Carolinae **25,2** (1984), 337-354; Zbl. 554.46009; MR 86c:46024; RZh 4B951(86)
13. APPELL J., ZABREJKO P.P.: *On analyticity conditions for the superposition operator in ideal function spaces*, Boll. Unione Mat. Ital. **4-C** (1985), 279-295; Zbl. 583.47057; MR 87g:47107; RZh 6B1221(85)
14. APPELL J.: *Über die Differenzierbarkeit des Superpositionsoperators in Orliczräumen*, Math. Nachr. **123** (1985), 335-344; Zbl. 537.47031; MR 87a:47096; RZh 1B1206(87)
15. Appell J., Zabrejko P.P.: Analytic superposition operators (Russian), Dokl. Akad. Nauk BSSR **29,10** (1985), 878-881; Zbl. 591.47048; MR 87e:47086; RZh 4B1169(87)
16. APPELL J.: *Misure di non compattezza in spazi ideali*, Rend. Accad. Sci. Lomb. **A-119** (1985), 157-174; Zbl. 619.47043; MR 89c:46042

17. APPELL J., DE PASCALE E.: *Théorèmes de bornage pour l'opérateur de Nemyskii dans les espaces idéaux*, Canad. J. Math. **38,6** (1986), 1281 - 1299; Zbl. 619.47051; MR 88c:47134; RZh 10B1203(88)
18. APPELL J., SEMENOV E.M.: *Estimating the Banach-Mazur distance of some pairs of symmetric spaces*, Math. Nachr. **132** (1987), 7-14; Zbl. 623.46010; MR 88k:46013; RZh 6B1044(89)
19. APPELL J., DE PASCALE E., ZABREJKO P.P.: *An application of B. N. Sadovskij's fixed point principle to nonlinear singular equations*, Zeitschr. Anal. Anw. **6** (3) (1987), 193-208; Zbl. 628.45003; MR 88m:47086; RZh 2B600(89)
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22. APPELL J.: *The superposition operator in function spaces-a survey*, Expositiones Math. **6,3** (1988), 209-270; Zbl. 648.47041; MR 90b:47118; RZh 11B1157(90)
23. APPELL J., SEMENOV E.M.: *Misure di non compattezza debole in spazi ideali simmetrici*, Rend. Accad. Sci. Lomb. **A-122** (1988), 87-104; Zbl. 711.46026; MR 91d:46029
24. APPELL J., ZABREJKO P.P.: *Über die $\mathcal{L}$ -Charakteristik nichtlinearer Operatoren in Räumen integrierbarer Funktionen*, Manuscripta Math. **62,3** (1988), 355-367; Zbl. 669.47039; MR 90a:47154; RZh 4B1293(90)
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29. APPELL J., NGUYEN H.T., ZABREJKO P.P.: *General existence theorems for quasilinear elliptic systems without monotonicity*, J. Math. Anal. Appl. **145,1** (1990), 26-38; Zbl. 688.35023; MR 90k:35098; RZh 6B380(92)
30. APPELL J., HARDY G.: *On products of Sobolev-Orlicz spaces*, Bull. Austral. Math. Soc. **42** (1990), 427-436; Zbl. 707.46023; MR 92c:46036; RZh 10B51(92)
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32. APPELL J., NAZAROV V.I., ZABREJKO P.P.: *Composing infinitely differentiable functions*, Math. Z. **206** (1991), 659-670; Zbl. 712.47054; MR 92c:47083; RZh 8B1038(93)
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34. APPELL J., DE PASCALE E., ZABREJKO P.P.: *On the application of the Newton-Kantorovich method to nonlinear integral equations of Uryson type*, Numer. Funct. Anal. Optim. **12** (1991), 271-283; Zbl. 724.45007; MR 92k:65190
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38. APPELL J., ZABREJKO P.P.: *Linear differential equations in scales of Banach spaces*, Analysis **12** (1992), 31-45; Zbl. 756.34060; MR 93h:34099
39. APPELL J., KRASNOSEL'SKIY A.M.: *New theorems on asymptotic bifurcation points*, Nonlin. Anal. TMA **18**, **3** (1992), 269-275; Zbl. 725.47041; MR 92m:47122; RZh 9B984(94)
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43. Appell J., Zabrejko P.P., Shirokanova N.I.: *Obshchie svojstva polilinejnykh i stepennykh integral'nykh operatorov v ideal'nykh prostranstvakh funktsij*, Dokl. Akad. Nauk Beloruss. **36**, **3** (1992), 197-201; Zbl. 753.47021; MR 93d:47129; RZh 9B950(94)
44. APPELL J., GUK O. J., ZABREJKO P.P.: *On the Weyl decomposition of the space $D_p(\Omega)$ and orthogonal projections of Navier-Stokes equations*, Annali Univ. Ferrara **38** (1992), 133-143; MR 94m:46053; RZh 9B232(94)
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46. APPELL J., DE PASCALE E., ZABREJKO P.P.: *On the application of the method of successive approximations and the Newton-Kantorovich method to nonlinear functional-integral equations*, Advances Math. Sci. Appl. **2**, **1** (1993), 25-38; Zbl. 781.45002; MR 94k:65077
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73. APPELL J., DÖRFNER M.: *Some spectral theory for nonlinear operators*, Nonlin. Anal. TMA **28**, **12** (1997), 1955-1976; Zbl. 876.47042; MR 98e:47098; RZh 13B944(00)
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