

# 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*, deGrueter Series in Nonlinear Analysis and Applications, Vol. 10, deGruyter-Verlag, Berlin 2004; Zbl. 1056.47001; MR 2005f:47143; PЖ 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., BANAS J., MERENTES N.: *Bounded Variation and Around*, deGrueter 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

## B. Journal Articles

1. Аппель Ю.: *Меры некомпактности и аппроксимации в локально выпуклых пространствах*, Качеств. Прибл. Методы Исслед. Опер. Уравн. **4** (1979), 3-13; Zbl. 429.47018; MR 81k:46008; PЖ 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. Аппель Ю., Забрейко П.П.: *Уплотняющие операторы в теории неявных функций*, Качеств. Прибл. Методы Исслед. Опер. Уравн. **5** (1980), 3-14; Zbl. 469.47042; MR 82j:58012; PЖ 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; PЖ 4Б1035(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; PЖ 3Б876(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; PЖ 3Б1109(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; PЖ 12Б1175(85)
8. Аппель Ю., Забрёйко П.П.: *Точные оценки сверху для оператора суперпозиции*, Докл. Акад. Наук БССР **27,8** (1983), 686-689; Zbl. 525.47020; MR 84j:47105; PЖ 1Б52(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; PЖ 4Б68(86)
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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; PЖ 5Б1055(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; PЖ 4Б951(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; PЖ 6Б1221(85)
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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 Nemyckii dans les espaces idéaux*, Canad. J. Math. **38,6** (1986), 1281 - 1299; Zbl. 619.47051; MR 88c:47134; PЖ 10Б1203(88)
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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; PЖ 11Б1157(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

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27. APPELL J., ZABREJKO P.P.: *Continuity properties of the superposition operator*, J. Austral. Math. Soc. **47** (1989), 186-210; Zbl. 683.47045; MR 91a:47083; PŽK 1B848(91)
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31. APPELL J., DE PASCALE E.: *Lipschitz and Darbo conditions for the superposition operator in non-ideal spaces*, Annali Mat. Pura Appl. **158** (1991), 205-217; Zbl. 745.47053; MR 92j:47134; PŽK 10B737(93)
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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; PЖ 9Б232(94)
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