

参 考 文 献

Alexandroff P S(Александров П С)

- [1924a] Sur les ensembles de la première classe et les ensembles abstraits. C R Acad Paris, 178: 185-187
- [1924b] Über die Metrisation der im kleinen topologischen Räume. Math Ann, 92: 294-301
- [1927] Über stetige Abbildungen kompakter Räume. Math Ann, 96: 555-571

Alexandroff P S(Александров П С), **Urysohn P S**(Урысон П С)

- [1923] Une condition nécessaire et suffisante pour qu'une classe (L) soit une classe (D). C R Acad Paris 177: 1274-1276

Arens R

- [1946] A topology for spaces of transformations. Ann Math, 47: 480-495
- [1950] Note on convergence in topology. Math Mag, 23: 229-234

Arens R, Dugundji J

- [1951] Topologies for function spaces. Pacific J Math, 1: 5-31

Arhangel'skii A V(Архангельский А В)

- [1959] An addition theorem for the weight of sets lying in bicompacta (in Russian). Dokl Akad Nauk SSSR, 126: 239~241
- [1962] On mappings of metric spaces (in Russian). Dokl Akad Nauk SSSR, 145: 245-247
- [1963] Some type of quotient mappings and the relations between classes of topological spaces(in Russian). Dokl Akad Nauk SSSR, 153: 743-746
- [1966] Mappings and spaces (in Russian). Uspechi Mat Nauk, 21(4): 133-184(=Russian Math Surveys, 21(4): 115-162)
- [1976] On some topological spaces that occur in functional analysis(in Russian). Uspechi Mat Nauk, 31(5): 17-32
- [1981] Classes of topological groups. Russian Math Surveys, 36(3): 151-174
- [1982] Factorization theorems and function spaces: stability and monolithicity. Soviet Math Dokl, 26: 177-181
- [1984] Continuous maps, factorization theorems, and function spaces. Trud Moskovsk Mat Obshch, 47: 3-21

- [1985] Function spaces in the topology of pointwise convergence. Part I: General topology: function spaces and dimension. Moskovsk Gos Univ, 1985, 3-66
- [1986] Hurewicz spaces, analytic sets, and fan tightness of functions. Soviet Math Dokl, 33: 396-399
- [1987] A survey of C_p -theory. Questions Answers in General Topology, 5: 1-109
- [1992] Topological function spaces. Dordrecht: Kluwer Academic Publishers, 1992
- [1995] General Topology III: Paracompactness, Function spaces, Descriptive theory. Encyclopaedia of Mathematical Sciences, V 51. Berlin: Springer-Verlag
- [1996] On spread and condensations. Proc Amer Math Soc, 124: 3519-3527
- [1998] Some observations on C_p -theory and bibliography. Topology Appl, 89: 202-221

Arhangel'skii A V(Архангельский А В), **Franklin S P**

- [1968] Ordinal invariants for topological spaces. Michigan Math J, 15: 313-320

Arhangel'skii A V(Архангельский А В), **Ponomarev V I**(Пономарев В И)

- [1984] Fundamentals of General Topology: Problems and Exercises. Dordrecht: Kluwer Academic Publishers

Arhangel'skii A V(Архангельский А В), **Pontryagin L S**(Понtryгин Л С)

- [1990] General Topology I : Basic Concepts and Consturctions, Dimension Theory. Encyclopaedia of Mathematical Sciences, V 17. Berlin: Springer-Verlag

Arhangel'skii A V(Архангельский А В), **Tkachuk V V**(Ткачук В В)

- [1985] Function spaces and topological invariants(in Russian). Moscow Univ Press

Asanov M O(Асанов М О)

- [1983] About the space of continuous functions. Colloq Math Soc János Bolyai, 41: 31-34

Ascoli G

- [1883] Memorie della Reale Accademia dei Lincei, 18(3): 521-586

Aull C E, Lowen R

- [1997] Handbook of the History of General Topology, V 1. Dordrecht: Kluwer Academic Publishers
- [1998] Handbook of the History of General Topology, V 2. Dordrecht: Kluwer Academic Publishers

[2001] Handbook of the History of General Topology, V 3. Dordrecht: Kluwer Academic Publishers

Bagley R W, Yang J S

[1966] On k-spaces and function spaces. Proc Amer Math Soc, 17: 703-705

Baire R

[1909] Sur la représentation des fonctions discontinues (deuxième partie). Acta Math, 32: 97-176

Beckenstein E, Narici L, Suffel C

[1977] Topological algebras. Notes de Mat, 60. New York: North-Holland

Bing R H

[1951] Metrization of topological spaces. Canad J Math, 3: 175-186

Birkhoff G

[1936] A note on topological groups. Comp Math, 3: 427-430

Boone J R, Siwiec F

[1976] Sequentially quotient mappings. Czech Math J, 26: 174-182

Bourbaki N

[1948] Topologie générale ch. IX. Paris

[1951] Topologie générale ch. I et II (second edition). Paris

Burke D K

[1984] Covering properties. In: Kunen K, Vaughan J E eds. Handbook of Set-theoretic Topology. Amsterdam: North-Holland, 347-422

Burke D K, Engelking R, Lutzer D J

[1975] Hereditarily closure-preserving collections and metrization. Proc Amer Math Soc, 51: 483-488

Burke D K, Michael E A

[1972] On a theorem of V. V. Filippov. Isreal J Math, 11: 394-397

[1976] On certain point-countable covers. Pacific J Math, 64: 79-92

Chen Huipeng(陈怀鹏)

[1999] Weak neighborhoods and Michael-Nagami's question. Houston J Math, 25(2): 297-309

Čech E

[1937] On bicompact spaces. Ann Math, 38: 823-844

Choban M M(Čoban M M, Чобан М М)

[1969] Mappings of metric spaces. Soviet Math Dokl, 10: 258-260

Cohen D E

[1954] Spaces with weak topology. Quart J Math Oxford, 5: 77-80

Cohen P E

[1976] Products of Baire spaces. Proc Amer Math Soc, 55: 119-124

Cohen P J

[1963] The independence of the continuum hypothesis. Proc Nat Acad Sci USA, 50: 1143-1148

[1964] The independence of the continuum hypothesis. Proc Nat Acad Sci USA, 51: 105-110

Dowker C H

[1952] Topology of metric complexes. Amer J Math, 74: 555-577

Dai Mumin(戴牧民)

[2003] 集论拓扑学引论. 桂林: 广西师范大学出版社

Dieudonné J

[1944] Une généralisation des espaces compacts. J Math Pure Appl, 23: 65-76

[1949] Review of Hewitt's paper. Math Reviews, 10, 126-127

Dijkstra J J, Grilliot T, van Mill J, Lutzer D J

[1985] Function spaces of low Borel complexity. Proc Amer Math Soc, 94: 703-710

Dugundji J

[1966] Topology. Boston: Allyn and Bacon, Inc.

Engelking R

[1969] On closed images of the spaces of irrationals. Proc Amer Math Soc, 21: 583-586

[1989] General Topology(revised and completed edition). Berlin: Heldermann

Filippov V V(Филиппов В В)

[1968] Preservation of the order of a base under a perfect mapping. Soviet Math Dokl, 9: 1005-1007

Foged L

- [1985] A characterization of closed images of metric spaces. Proc Amer Math Soc, 95: 487-490

Fox R

- [1945] On topologies for function spaces. Bull Amer Math Soc, 51: 429-432

Franklin S P

- [1965] Spaces in which sequences suffice. Fund Math, 57: 107-115

Fréchet M

- [1906] Sur quelques points du calcul fonctionnel. Rend del Circ Mat di Palermo, 22: 1-74

Gale D

- [1950] Compact sets of functions and function rings. Proc Amer Math Soc, 1: 303-308

Gao Guoshi(高国士)

- [2000] 拓扑空间论. 北京: 科学出版社

Gao Zhimin(高智民)

- [1987a] \aleph -space is invariant under perfect mappings. Questions Answers in General Topology, 5: 271-279

- [1987b] The closed images of metric spaces and Fréchet \aleph -spaces. Questions Answers in General Topology, 5: 281-291

Ge Ying(葛英)

- [1997] F_σ 子集不保持 T_1 仿紧性. 苏州大学学报(自然科学版), 13: 8-9

Gerlits J

- [1983] Some properties of $C(X)$, II. Topology Appl, 15(3): 255-262

Gerlits J, Nagy Zs

- [1982] Some properties of $C(X)$, I. Topology Appl, 14(2): 151-161

Gillman L, Jerison M

- [1960] Rings of continuous functions. Princeton

Gillman L, Henriksen M

- [1954] Concerning rings of continuous functions. Trans Amer Math Soc, 77: 340-362

Gödel K

- [1938] The consistency of the axiom of choice and of the generalized continuum hypothesis.
Proc Nat Acad Sci USA, 24: 556-557

Good C, Tree I J

- [1995] Continuing horrors of topology without choice. Topology Appl, 63: 79-90

Good C, Tree I J, Watson W S

- [1998] On Stone's theorem and the axiom of choice. Proc Amer Math Soc, 126(4):
1211-1218

Gruenhage G

- [1984] Generalized metric spaces. In: Kunen K, Vaughan J E eds. Handbook of Set-theoretic
Topology. Amsterdam: North-Holland, 423-501

Gruenhage G, Michael E A, Tanaka Y(田中祥雄)

- [1984] Spaces determined by point-countable covers. Pacific J. Math, 113: 303-332

Guo Xifeng(郭喜凤), Hu Jing(胡晶)

- [2002] 关于函数空间上三个特殊拓扑满足第一可数公理的条件. 数学的实践与认识,
32(1): 150-152

Guthrie J A

- [1971] A characterization of \aleph_0 -spaces. General Topology Appl, 1: 105-110

Hanai S(花井七郎)

- [1956] On closed mapping, II. Proc Japan Acad, 32: 388-391

- [1961] Inverse images of closed mappings I. Proc Japan Acad, 37: 298-301

Hausdorff F

- [1914] Grundzüge der Mengenlehre. Leipzig

Heath R W

- [1964] Screenability, pointwise paracompactness and metrization of Moore spaces. Canad J
Math, 16: 767-770

Hewitt E

- [1946] A remark on density characters. Bull Amer Math Soc, 52: 641-643

Hodel R E

- [1984] Cardinal functions I. In: Kunen K, Vaughan J E eds. Handbook of Set-theoretic

Topology. Amsterdam: North-Holland, 1-61

Hu Zuoxuan(胡作玄), **Deng Mingli**(邓明立)

[1999] 20世纪数学思想. 济南: 山东教育出版社

Hurewicz W

[1927] Über folgen stetiger fukktionen. Fund Math, 9: 193-204

Ikeda Y(池田义人)

[1999] σ -strong networks, and quotient compact images of metric spaces. Questions

Answers in General Topology, 17(2): 269-279

Ikeda Y(池田义人), **Liu Chuan**(刘川), **Tanaka Y**(田中祥雄)

[2002] Quotient compact images of metric spaces, and related matters. Topology Appl, 122(3): 237-252

Ikeda Y(池田义人), **Tanaka Y**(田中祥雄)

[1993] Spaces having star-countable k-networks. Topology Proc, 18: 107-132

Jayanthan A J, Kannan V

[1988] Spaces every quotient of which is metrizable. Proc Amer Math Soc, 103: 294-298

Jiang Jiguang(蒋继光)

[1991] 一般拓扑学专题选讲. 成都: 四川教育出版社

Jones F B

[1937] Concerning normal and completely normal spaces. Bull Amer Math Soc, 43: 671-677

[1958] R. L. Moore's axiom 1' and metrization. Proc Amer Math Soc, 9: 487-487

Kelley J L

[1950] The Tychonoff product theorem implies the Axiom of Choice. Fund Math, 37: 75-76

[1955] General Topology. New York: van Nostrand(中译本: 吴从欣, 吴让泉译. 一般拓扑学. 北京: 科学出版社, 1982)

Katětov M

[1952] On the dimension of non-separable spaces I(in Russian). Czech Math J, 2: 333-368

Kline M

[1972] Mathematical Thought from Ancient to Modern Times. New York: Oxford Univ Press(中译本: 北京大学数学系数学史翻译组译. 申又枨, 冷生明校. 古今数学

思想(第四册). 上海: 上海科学技术出版社, 1981)

Kodama Y(儿玉之宏), **Nagami K**(永见启应)

[1974] 位相空间论(日文). 东京: 岩波书店(中译本: 方嘉琳译. 拓扑空间论. 北京: 科学出版社, 1984)

Kuratowski K(Kuratowski C)

[1930] Sur les espaces completes. Fund Math, 15: 301-309

[1933] Topologie, I . Warszawa

[1966] Topology, V I. New York: Academic Press

Lašnev N V(Лашнев Н С)

[1966] Closed images of metric spaces(in Russian). Dokl Akad Nauk SSSR, 170: 505-507

Lasyth M D(Лахути М Д)

[1988] On relative function spaces(in Russian). Vestnik Moskov Univ Mat, (6): 29-31

Leja F

[1927] Sur la notion du group abstrait topologique. Fund Math, 9: 37-44

Lelek A

[1969] Some covering properties of spaces. Fund Math, 64(2): 209-218

Lin Shou(林寿)

[1988a] 闭映射不能保持 T_1 仿紧性及紧式仿紧性. 苏州大学学报(自然科学版), (4):

184-187

[1988b] Mapping theorems on \aleph -spaces. Topology Appl, 30: 159-164

[1988c] On a generalization of Michael's theorem. Northeastern J Math, 4: 162-168

[1992] On the quotient compact images of metric spaces. Adv Math, 21: 93-96

[1993] The sequence-covering s-images of metric spaces. Northeastern J Math, 9: 81-85

[1994a] 关于 Jameson 的一个定理. 苏州大学学报(自然科学版), 10(4): 327-329

[1994b] Cardinal functions on $C(X)$ with the epi-topology. Kobe J Math, 11(2): 221-224

[1995] 广义度量空间与映射. 北京: 科学出版社

[1996] 关于序列覆盖 s 映射. 数学进展, 25: 548-551

[1998] 局部凸空间的正规性. 系统科学与数学, 18(1): 23-26

[2000] 点可数覆盖与序列覆盖映射[博士学位论文]. 杭州: 浙江大学

[2002] 点可数覆盖与序列覆盖映射. 北京: 科学出版社

Lin Shou(林寿), Li Zhaowen(李招文), Li Jinjin(李进金), Liu Chuan(刘川)

[1993] On ss-mappings. Northeastern J Math, 9: 521-524

Lin Shou(林寿), Liu Chuan(刘川)

[1993] $C_k(X)$ 的可数强扇密度. 广西大学学报(自然科学版), 18(1): 32-34

Lin Shou(林寿), Liu Chuan(刘川), Teng Hui(滕辉)

[1994] $C_k(X)$ 的扇密度和强 Fréchet 性质. 数学进展, 23(3): 234-237

Lin Shou(林寿), Tanaka Y(田中祥雄)

[1994] Point-countable k-networks, closed maps, and related results. Topology Appl, 59: 79-86

Lin Shou(林寿), Yan Pengfei(燕鹏飞)

[2001a] 关于序列覆盖紧映射. 数学学报, 44(1): 175-182

[2001b] Sequence-covering maps of metric spaces. Topology Appl, 109(3): 301-314

[2003] Notes on cfp-covers. Comment Math Univ Carolinae, 44(2): 295-306

Liu Chuan(刘川), Dai Mumin(戴牧民)

[1996] 度量空间的紧覆盖 s 象. 数学学报, 39(1): 41-44

Liu Chuan(刘川), Lin Shou(林寿), Teng Hui(滕辉)

[1997] 函数空间 $C_p(Y|X)$ 的一些基数函数. 淮北煤师院学报(自然科学版), 18(4): 1-4

Liu Xiuzhen(刘秀珍), Li Zuquan(李祖泉)

[1992] 函数空间 $C_p(X)$ 的双径向性. 佳木斯工学院学报, 10(3): 178-180

Lutzer D J

[1971] Semimetrizable and stratifiable spaces. General Topology Appl, 1: 43-48

Lutzer D J, McCoy R A

[1980] Category in function spaces, I. Pacific J Math, 90(1): 145-168

Marczewski E

[1947] Séparabilité et multiplication cartésienne des espaces topologiques. Fund Math, 34: 127-143

Martin H W

[1976] Weak bases and metrization. Trans Amer Math Soc, 222: 337-344

McAuley L F

[1956] A relation between perfect separability, completeness, and normality in semimetric spaces. Pacific J Math, 6: 315-326

McCoy RA

[1978a] Characterization of pseudocompactness by the topology of uniform convergence on function spaces. J Austral Math Soc A, 26: 251-256

[1978b] Submetrizable spaces and almost σ -compact function spaces. Proc Amer Math Soc, 71(1): 138-142

[1980a] Countability properties of function spaces. Rocky Mountain J Math, 10(4): 717-730

[1980b] Function spaces which are k-spaces. Topology Proc, 5: 139-146

[1980c] k-space function spaces. Internat J Math Math Sci, 3(4): 701-711

McCoy RA, Ntantu I

[1985] Countability properties of function spaces with set-open topologies. Topology Proc, 10: 329-345

[1986] Completeness properties of function spaces. Topology Appl, 22: 191-206

[1988] Topological properties of spaces of continuous functions. In: Lecture Notes in Math, No 1315. Berlin: Springer-Verlag

Michael E A

[1953] A note on paracompact spaces. Proc Amer Math Soc, 4: 831-838

[1957] Another note on paracompact spaces. Proc Amer Math Soc, 8: 822-828

[1959] Yet another note on paracompact spaces. Proc Amer Math Soc, 10: 309-314

[1963] The product of a normal space and a metric space need not be normal. Bull Amer Math Soc, 69: 375-376

[1964] A note on closed maps and compact sets. Israel J Math, 2: 173-176

[1966] \aleph_0 -spaces. J Math Mech, 15: 983-1002

[1967] A note on k-spaces and k_R -spaces. Topology Conf Ariz State Univ, 247-249

[1968] Bi-quotient maps and cartesian products of quotient maps. Ann Inst Fourier Greenoble, 18: 287-302

- [1971] On representing spaces as images of metrizable and related spaces. Genera Topology Appl, 1: 329-343
- [1972] A quintuple quotient quest. General Topology Appl, 2: 91-138
- [1977] \aleph_0 -spaces and a function space theorem of R. Pol. Indiana Univ Math J, 26: 299-306

Michael E A, Nagami K(永见启应)

- [1973] Compact-covering images of metric spaces. Proc Amer Math Soc, 37: 260-266

Michael E A, Stone A H

- [1969] Quotients of the space of irrationals. Pacific J Math, 28: 629-633

van Mill J

- [2001] The Infinite-Dimensional Topology of Function Spaces. Amsterdam: North-Holland

van Mill J, G. M. Reed

- [1990] Open Problems in Topology. Amsterdam: North-Holland

Miščenko A S(ミщенко A C)

- [1962] Spaces with a pointwise denumerable bases (in Russian). Dokl Akad Nauk SSSR, 145: 985-988 (=Soviet Math Dokl, 1962, 3: 855-858)

Moore E H, Smith H L

- [1922] A general theory of limits. Amer J Math, 44: 102-121

Moore R L

- [1916] On the foundations of plane analysis suits. Trans Amer Math Soc, 17: 131-164

Morita K(森田紀一)

- [1955] A condition for the metrizability of topological spaces and for n-dimensionality. Sci Rep Tokyo Kyoiku Daigaku Sec, A5: 33-36
- [1956] On closed mappings. Proc Japan Acad, 32: 539-543
- [1964] Products of normal spaces with metric spaces. Math Ann, 154: 365-382

Morita K(森田紀一), Nagata J(長田潤一)

- [1989] Topics in General Topology. Amsterdam: North-Holland

Nadler Jr S B

- [1992] Continuum Theory: An Introduction. New York: Marcel Dekker Inc

Nagata J(长田润一)

- [1949] On lattices of functions on topological spaces and of functions on uniform spaces.
Osaka Math J, 1(2): 166-181
- [1950] On a necessary and sufficient condition of metrizability. J Inst Polyt Osaka City Univ,
1: 93-100

Noble N

- [1974] The density character of function spaces. Proc Amer Math Soc, 42: 228-233

O'Meara P

- [1971] On paracompactness in function spaces with the compact-open topology. Proc Amer
Math Soc, 29: 183-189

Oxtoby J C

- [1961] Cartesian products of Baire spaces. Fund Math, 49: 157-166
- [1980] Measure and Category(second edition). Berlin: Springer-Verlag

Pondiczery E S

- [1944] Power problems in abstract spaces. Duke Math J, 11: 835-837

Ponomarev V I(Пономарев В И)

- [1960] Axioms of countability and continuous mappings (in Russian). Bull Pol Acad Math,
8: 127-133

Pu Baomin(蒲保明), Jiang Jiguang(蒋继光), Hu Shuli(胡淑礼)

- [1985] 拓扑学. 北京: 高等教育出版社

Pytkeev E G(Пыткеев Е Т)

- [1982] The tightness of spaces of continuous functions. Russian Math Surveys, 37(1):
176-177
- [1985] The Baire property of spaces of continuous functions. Math Zametki, 38: 726-740
- [1993] On a property of Fréchet-Urysohn spaces of continuous functions. Proc Steklov
Institute of Math, 193(3): 173-178

Sakai M(酒井政美)

- [1988] Property C" and function spaces. Proc Amer Math Soc, 104: 917-919

Siwiec F

- [1971] Sequence-covering and countably bi-quotient mappings. General Topology Appl, 1:

143-154

[1974] On defining a space by a weak base. Pacific J Math, 52(1): 233-245

Smirnov Ju M(Смирнов Ю М)

[1951] On metrization of topological spaces(in Russian). Uspechi Mat Nauk, 6(6): 100-111

Sorgenfrey R H

[1947] On the topological product of paracompact spaces. Bull Amer Math Soc, 53: 631-632

Steen L A, Seebach Jr J A

[1978] Counterexamples in Topology(second edition). New York: Springer-Verlag

Stone A H

[1948] Paracompactness and product spaces. Bull Amer Math Soc, 54: 977-982

[1956] Metrizability of decomposition spaces. Proc Amer Math Soc, 7: 690-700

[1962] Non-separable Borel sets. Rozprawy Mat, 28

Stone M H

[1937] Applications of the theory of Boolean rings to general topology. Trans Amer Math Soc, 41: 375-481

[1947] The generalized Weierstrass approximation theorem. Math Mag, 21: 167-183, 237-254

Tanaka Y(田中祥雄)

[1987] Point-countable covers and k-networks. Topology Proc, 12: 327-349

[1991] Symmetric spaces, g-developable spaces and g-metrizable spaces. Math Japonica, 36, 71-84

Teng Hui(滕辉), Lin Shou(林寿), Liu Chuan(刘川)

[1992] The barrelled property of function spaces $C_p(Y|X)$ and $C_k(Y|X)$. Topology Proc, 17: 277-286

[1993] 函数空间的遗传稠密度和遗传 Lindelöf 度. 科学通报, 38(1): 1-4

Tietze H

[1923] Beiträge zur allgemeinen topologie I. Math Ann, 88: 290-312

Tukey J W

[1940] Convergence and Uniformity in Topology. Ann Math Studies 2, Princeton

Tychonoff A N(Тихонов А Н)

[1935] Ein fixpunktsatz. Math Ann, 111: 767-776

Urysohn P(Урысон П С)

[1925a] Über die Mächtigkeit der zusammenhängenden Mengen. Math Ann, 94: 262-295

[1925b] Zum Metrisations problem. Math Ann, 94: 309-315

Wang Lin(汪林), Yang Fuchun(杨富春)

[2000] 拓扑空间中的反例. 北京: 科学出版社

Wang Yuan et. al(王元等)

[1994-2000] 数学百科全书(第一至五卷). 北京: 科学出版社

Warner G

[1958] The topology of compact convergence on continuous function spaces. Duke Math J, 25: 265-282

Weil A

[1936] Sur les groupes topologiques et les groupes mesurés. C R Acad Pairs, 202: 1147-1149

[1938] Sur les espaces à structure uniforme et sur la topologie générales. Pairs

Whitehead J H C

[1948] A note on a theorem due to Borsuk. Bull Amer Math Soc, 54: 1125-1132

Whyburn G T

[1942] Analytic Topology. New York: Amer Math Soc Colloq Publications

Xiong Jicheng(熊金城)

[1998] 点集拓扑讲义(第二版). 北京: 高等教育出版社(第一版, 1981)

Yan Pengfei(燕鹏飞)

[1997] 度量空间的紧映象. 数学研究, 30: 185-187, 198

Yan Pengfei(燕鹏飞), Lin Shou(林寿)

[1999a] Point-countable k-networks, cs*-networks and α_4 -spaces. Topology Proc, 24(spring): 345-354

[1999b] 关于度量空间的紧覆盖 s 映射. 数学学报, 42(2): 241-244

Yun Ziqiu(恽自求)

[1989] On point-countable closed k-networks. Questions Answers in General Topology, 7:

139-140

Zermelo E

[1904] Beweiss, dass jede Menge wohlgeordernet werden Kann. Math Ann, 59: 514-516

Zhu Jincai(朱金才)

[2003] Weierstrass 逼近定理与 Ascoli 定理的推广. 宁德师专学报(自然科学版), 15(1):

1-4

Zhu Jun(朱俊)

[1983] 关于 M_1 -空间映象的一个注记. 苏州大学学报(自然科学版), (1): 67-70

Zorn M

[1935] A remark on a method in transfinite algebra. Bull Amer Math Soc, 41: 667-670

索引

| 符号索引* | | |
|--|---------------|--|
| \mathbb{R} (实数集) | 1.0.0 | Δ_F (对角线函数) 1.3.8 |
| ω (自然数集或最小的无限序数) | 1.0.0 | βX (X 的 Stone-Čech 紧化) 1.3.11 |
| \mathbb{N} (正整数集) | 1.0.0 | $\mathcal{F}_{ A}$ (\mathcal{F} 在 A 的限制) 1.4.6 |
| \mathbb{I} (单位闭区间) | 1.0.0 | $\bigoplus_{\alpha \in \Lambda} X_\alpha$ (空间族的拓扑和) 1.4.8, 1.6.7 |
| \mathbb{Q} (有理数集) | 1.0.0 | $st(x, \mathcal{P})$ (\mathcal{P} 在 x 的星) 1.5.1 |
| \mathbb{P} (无理数集) | 1.0.0 | $st(A, \mathcal{P})$ (\mathcal{P} 在 A 的星) 1.5.1 |
| \mathbb{S}_1 (收敛序列) | 1.0.0 | id_X (X 上的恒等函数) 1.6.8 |
| ZFC(Zermelo-Fraenkel-Choice 公理) | 1.0.0 | \mathbb{R}^n (欧几里得空间) 2.1.2 |
| ZF(Zermelo-Fraenkel 公理) | 1.0.0 | H (Hilbert 空间) 2.1.3 |
| $\prod_{\alpha \in \Lambda} X_\alpha$ (空间族的积空间) | 1.1.11 | $B_d(x, \varepsilon)$ (球形邻域) 2.1.4 |
| $f(\mathcal{P})$ (\mathcal{P} 在 f 的象) | 1.1.8 | $d(A)$ (A 的直径) 2.1.6 |
| $f^{-1}(\mathcal{F})$ (\mathcal{F} 在 f 的逆象) | 1.1.8 | $indX(X)$ (X 的小归纳维数) 2.1.10 |
| p_B (投影函数) | 1.1.11, 4.6.5 | $IndX(X)$ (X 的大归纳维数) 2.1.10 |
| X^A (X 的积空间) | 1.1.12 | $dimX(X)$ (X 的覆盖维数) 2.1.10 |
| \mathbb{I}^A (Tychonoff 方体) | 1.1.12 | $B(\lambda)$ (Baire 零维空间) 2.1.12 |
| ω_1 (第一个不可数序数) | 1.2.7 | $d(A, B)$ (A 与 B 之间的距离) 2.2.1 |
| $\beta \mathbb{N}$ (\mathbb{N} 的 Stone-Čech 紧化) | 1.2.8 | $d(x, A)$ (x 与 A 之间的距离) 2.2.1 |
| $f_{ A}$ (f 在 A 的限制) | 1.2.11 | ccc (可数链条件) 2.2.8 |
| f_B (f 在 B 的限制) | 1.2.11 | \mathbb{I}^ω (Hilbert 方体) 2.3.4' |
| cX (X 的紧化) | 1.3.7 | $w(X)$ (X 的权) 2.6.1 |
| ωX (X 的一点紧化) | 1.3.7 | S_2 (Arens 空间) 3.1.7 |
| <hr/> | | |
| $\psi(\mathbb{N})$ (Gillman-Jerison 空间) | | 3.4.16 |

* 按书中出现的先后次序排列

| | | | |
|---|--------------|---|--------|
| S_{ω_1} (ω_1 扇) | 3.6.9 | $C_p C_p(X)(C_p(C_p(X, \mathbb{R}), \mathbb{R}))$ | 4.6.12 |
| Δ (对角线, 对角线函数) | 4.1.0, 4.5.2 | $L_p(X)$ (线性拓扑子空间) | 4.6.12 |
| A^{-1} (A 的逆) | 4.1.0, 4.2.3 | $\{X, \alpha\}$ (遗传闭的紧网络) | 5.0.0 |
| $A \circ B$ (A 与 B 的复合) | 4.1.0 | $d(X)(X$ 的稠密度) | 5.0.0 |
| $A[x]$ (A 在 x 的象) | 4.1.0 | $\chi(X)(X$ 的特征) | 5.0.0 |
| $C(X)$ (连续函数空间) | 4.3.0 | $c(X)(X$ 的胞腔度) | 5.0.0 |
| $[A, B]$ (满足 $f(A) \subset B$ 的连续函数 f 之集) | 4.3.0 | $nw(X)(X$ 的网络权) | 5.1.0 |
| | | $\alpha nw(X)(X$ 的 α 网络权) | 5.1.0 |
| $C_p(X, L)$ (具点开拓拓扑的连续函数空间) | 4.3.1 | $ww(X)(X$ 的弱权) | 5.1.4 |
| | | $w_\alpha(X)(X$ 的 α 权) | 5.1.4 |
| $C_k(X, L)$ (具紧开拓拓扑的连续函数空间) | 4.3.1 | $\psi(X)(X$ 的伪特征) | 5.2.0 |
| | | $\Delta(X)(X$ 的对角线数) | 5.2.0 |
| $C_\alpha(X, L)$ (具集开拓拓扑的连续函数空间) | 4.3.1 | $w\alpha c(X)(X$ 的弱 α 覆盖数) | 5.2.0 |
| | | $\alpha a(X)(X$ 的 α -Arens 数) | 5.2.10 |
| $X \leq L$ (L 的拓扑较精于 X 的拓扑) | 4.3.2 | $\pi\chi(X)(X$ 的 π 特征) | 5.2.10 |
| $C_w(X, L)$ (最大集开拓拓扑的连续函数空间) | 4.3.2 | $\pi w(X)(X$ 的 π 权) | 5.3.0 |
| | | $\alpha\alpha nw(X)(X$ 的 α - α 网络权) | 5.3.0 |
| | | $\log(\lambda)(\lambda$ 的对数) | 5.3.7 |
| $\hat{M}(A)$ (函数空间一致结构子基的元) | 4.4.0 | $J(\kappa)$ (刺猬空间) | 5.3.8 |
| $C_{\alpha, \mu}(X, L)$ (一致收敛拓扑空间) | 4.4.0 | $t(X)(X$ 的 tightness) | 5.4.0 |
| $C_\mu(X, L)$ (一致收敛拓扑空间) | 4.4.0 | $\alpha L(X)(X$ 的 α -Lindelöf 数) | 5.4.0 |
| $C_\rho(X, L)$ (上确界度量拓扑空间) | 4.4.6 | $L(X)(X$ 的 Lindelöf 数) | 5.4.0 |
| $\{x_d\}_{d \in D}$ (网) | 4.4.11 | $ft(X)(X$ 的扇 tightness) | 5.4.7 |
| | | CH (连续统假设) | 5.6.10 |
| f^* (诱导函数) | 4.5.5 | $W(f, S, \varepsilon)$ (f 的基本邻域) | 6.0.4 |
| e (赋值函数) | 4.5.11 | $C_p(Y X)$ (相对函数空间) | 6.0.8 |
| $e_x(x$ 的赋值函数) | 4.5.13 | | |

词组索引^{*}

| | | | |
|---|--------------|--|--------|
| | | compactification) | 1.3.7 |
| Ν 空间(Ν -space) | 3.6.7 | Alexandroff 双圆拓扑(Alexandroff's double circles topology) | 3.4.11 |
| Ν ₀ 空间(Ν ₀ -space) | 3.6.7 | Alexandroff-Urysohn 度量化定理 (Alexandroff-Urysohn metrization theorem) | 2.3.e |
| Ν ₁ 紧空间(Ν ₁ -compact space) | 2.2.8 | Arens 空间(Arens space) | 3.1.7 |
| α -α 网络权(α -α -netweight) | 5.3.0 | Ar h a n g e l ' s k i ī - P y t k e e v 定理 (Arhangel'skii-Pytkeev theorem) | 5.4.3 |
| α -Arens 数(α -Arens number) | 5.2.10 | Asanov 定理(Asanov theorem) | 5.4.5 |
| α -Lindelöf 数(α -Lindelöf number) | 5.4.0 | Ascoli-Arzelà 定理(Ascoli-Arzelà theorem) | |
| α _R 空间(α _R -space) | 5.6.2 | Ascoli 定理(Ascoli theorem) | 4.6.11 |
| α 覆盖(α -covering) | 5.2.10 | B | |
| α 权(α -weight) | 5.1.4 | Baire 范畴定理(Baire category theorem) | 1.7.5 |
| α 网络(α -network) | 4.5.7 | Baire 空间(Baire space) | 1.7.5 |
| α 网络权(α -netweight) | 5.1.0 | Baire 零维空间(Baire's zero-dimensional space) | 2.1.12 |
| α 序列(α -sequence) | 5.5.0 | Banach 范畴定理(Banach category theorem) | |
| π 特征(π -character) | 5.2.10 | 1.7.7 | |
| π 基(π -base) | 5.3.0, 6.1.0 | Bing-Nagata-Smirnov 度量化定理 (Bing-Nagata-Smirnov metrization theorem) | |
| π 权(π -weight) | 5.3.0 | 2.3.3 | |
| σ 闭包保持族(σ -closure-preserved family) | 1.5.7 | Bing 度量化准则(Bing metrization criterion) | |
| σ 局部有限族(σ -locally finite family) | 1.4.4 | 2.3.11 | |
| σ 离散族(σ -discrete family) | 1.5.4 | Birkhoff 度量化定理(Birkhoff metrization theorem) | |
| ω 覆盖(ω -covering) | 5.2.10 | 4.2.5 | |
| ω 聚点(ω -accumulation point) | 1.2.2 | Burke-Engelking-Lutzer 度量化定理 (Burke-Engelking-Lutzer metrization theorem) | |
| ω ₁ 扇(ω ₁ -fan) | 3.6.9 | 3.6.13 | |

A

Alexandroff 定理(Alexandroff theorem) 2.6.8

Alexandroff 紧化(Alexandroff

* 中文按拼音字母顺序排列

| | | | |
|---------------------------------------|--------|--|--------|
| 半紧(hemicompact) | 5.2.10 | 超拓扑性质(supertopological property) | 6.0.2 |
| 胞腔度(cellularity) | 5.0.0 | 超限归纳法(transfinite induction) | 3.6.10 |
| 逼近(approximation) | 4.5.7 | 稠密度(density) | 5.0.0 |
| 闭 k 网络(closed k-network) | 3.3.11 | 次可度量化(submetrizable) | 5.2.4 |
| 闭包保持族(closure-preserving family) | 1.4.3 | 刺猬空间(hedgehog) | 5.3.8 |
| 闭加细(closed refinement) | 1.4.1 | D | |
| 闭嵌入(closed embedding) | 1.3.7 | 代数(algebra) | 4.6.0 |
| 闭网络(closed network) | 4.3.0 | 单位分解(partition of unity) | 1.4.14 |
| 闭映射(closed mapping) | 1.1.9 | 单位分解定理(unit partition theorem) | 1.4.15 |
| 边界 L 映射(boundary L-mapping) | 3.6.8 | 等度连续性(equi continuity) | 4.6.6 |
| 边界紧映射(boundary compact mapping) | 2.4.6 | 等距(isometric) | 2.5.9 |
| | | 底拓扑空间(underlying topological space) | |
| C | | | 4.3.1 |
| Cantor 定理(Cantor theorem) | 2.5.3 | 第二范畴集(second category set) | 1.7.5 |
| Cantor 集(Cantor set) | 2.6.7 | 第二可数空间(second countable space) | 2.2.8 |
| Cantor 三分集(Cantor's middle-third set) | 2.6.7 | 第一范畴集(first category set) | 1.7.5 |
| | | 第一可数空间(first countable space) | 1.2.6 |
| Cauchy 网(Cauchy net) | 5.6.0 | 点开拓扑(point-open topology) | 4.3.1 |
| Cauchy 序列(Cauchy sequence) | 2.5.1 | 点可数基(point-countable base) | 3.3.3 |
| Čech 完全空间(Čech-complete space) | 1.7.2 | 点可数族(point-countable family) | 3.3.3 |
| cfp 覆盖(cfp-covering) | 3.4.4 | 点态收敛(pointwise convergent) | 4.4.13 |
| cfp 网络(cfp-network) | 3.5.1 | 点态收敛拓扑(pointwise convergence topology) | |
| Cohen 定理(Cohen theorem) | 1.6.11 | | 4.3.1 |
| cosmic 空间(cosmic space) | 5.1.0 | 点态有界(pointwise bounded) | 4.6.9 |
| C_p 理论(C_p -theory) | 6.0.0 | 点星加细(point-star refinement) | 1.5.1 |
| cs* 网络(cs*-network) | 3.5.9 | 点有限族(point-finite family) | 1.4.e |
| cs 网络(cs-network) | 3.5.9 | 蝶形拓扑(butterfly topology) | 3.2.11 |
| C 嵌入(C -embedded) | 5.1.5 | 度量(metric) | 2.1.1 |
| 常态映射(proper mapping) | 1.3.6 | 度量公理(metric axiom) | 2.1.1 |
| | | 度量化引理(metrization lemma) | 4.1.8 |

| | | | |
|---|--------------|--|--------|
| 度量空间(metric space) | 2.1.1 | theorem) | 2.4.7 |
| 度量拓扑(metric topology) | 2.1.5 | HCP 族(HCP family) | 3.6.1 |
| 对角线函数(diagonal function) | 1.3.8 | Hewitt-Marczewski-Pondiczery 定理 | |
| 对角线数(diagonal number) | 5.2.0 | (Hewitt-Marczewski-Pondiczery theorem) | |
| 对角线引理(diagonal lemma) | 1.3.8, 4.5.2 | | 5.0.3 |
| 对偶定理(duality theorem) | 5.2.5 | Hilbert 方体(Hilbert cube) | 2.3.4' |
| 对偶空间(dual space) | 4.6.12 | Hilbert 空间(Hilbert space) | 2.1.3 |
| E | | | |
| Engelking 定理(Engelking theorem) | 2.6.6 | Hurewicz 定理(Hurewicz theorem) | 2.1.10 |
| F | | | |
| Foged 定理(Foged theorem) | 3.6.6 | 函数闭集(functionally closed set) | 2.1.10 |
| Fortissimo 拓扑(Fortissimo topology) | 6.2.12 | 函数开集(functionally open set) | 2.1.10 |
| Fréchet 空间(Fréchet space) | 3.1.5 | 函数空间(function space) | 4.3.1 |
| F_σ 集(F_σ -set) | 1.5.10 | 和函数(sum function) | 4.5.16 |
| 仿紧空间(paracompact space) | 1.4.2 | 环(ring) | 4.2.1 |
| 分离点(separate points) | 1.3.8 | J | |
| 分离点与闭集(separate point from closed set) | 1.3.8 | Jones 猜想(Jones conjecture) | 2.3.12 |
| 复合函数(composition function) | 4.3.5 | 积函数(product function) | 4.5.18 |
| 赋值函数(evaluation function) | 4.5.11 | 积空间(product space) | 1.1.11 |
| 覆盖(covering) | 1.1.0 | 积拓扑(product topology) | 1.1.11 |
| G | | | |
| Gillman-Jerison 空间(Gillman-Jerison space) | 3.4.16 | 基数函数(cardinal function) | 5.0.0 |
| G_δ 对角线(G_δ -diagonal) | 5.2.0 | 极大紧化(maximal compactification) | |
| G_δ 集(G_δ -set) | 1.2.e | 1.2.8, 1.3.11 | |
| 广义可数(virtually countable) | 5.5.7 | 极小 cfp 覆盖(minimal cfp-covering) | 3.5.3 |
| H | | | |
| Hanai-Morita-Stone 定理(Hanai-Morita-Stone | | 极小 sn 覆盖(minimal sn-covering) | 3.3.e |
| | | 极小覆盖(minimal covering) | 3.3.10 |
| | | 极小内部覆盖(minimal interior covering) | |
| | | 集开拓扑(set-open topology) | 4.3.1 |
| | | 集态正规空间(collectionwise normal space) | |
| | | 2.3.8 | |

| | | |
|---|--|--------|
| 几乎互不相交族(almost disjoint family) | k 覆盖(k-covering) | 5.2.10 |
| 3.4.16 | k 空间(k-space) | 1.6.4 |
| 几乎 σ 紧空间(almost σ -compact space) | k_R 空间(k_R -space) | 5.6.2 |
| 5.2.0 | k 网络(k-network) | 3.3.11 |
| 几乎满(almost onto) | k 网络权(k-netweight) | 5.1.0 |
| 加群(additive group) | k 映射(k-mapping) | 1.6.e |
| 加细(refinement) | 开加细(open refinement) | 1.4.1 |
| 交换群(commutative group) | 开映射(open mapping) | 1.1.9 |
| 解析空间(analytic space) | 可度量化空间(metrizable space) | 2.1.5 |
| 紧覆盖映射(compact-covering mapping) | 可数 tightness(countable tightness) | 5.4.0 |
| 紧开拓扑(compact-open topology) | 可数紧空间(countably compact space) | 1.2.1 |
| 紧空间(compact space) | 可数链条件(countable chain condition) | 2.2.8 |
| 紧收敛拓扑(topology of compact convergence) | 可数强扇 tightness(countable strong fan tightness) | 5.4.8 |
| 紧网络(compact network) | 可数扇 tightness(countable fan tightness) | 5.4.7 |
| 紧映射(compact mapping) | 可数双商映射(countably bi-quotient mapping) | |
| 紧有限分解网络(compact-finite-partition network) | 2.4.12 | |
| 精确加细(precise refinement) | 可展空间(development space) | 2.3.10 |
| 局部 π 基(local π -base) | L | |
| 局部紧空间(locally compact space) | Lašnev 空间(Lašnev space) | 3.6.0 |
| 局部可数族(locally countable family) | Lindelöf 空间(Lindelöf space) | 1.4.6 |
| 局部有限族(locally finite family) | Lindelöf 数(Lindelöf number) | 5.4.0 |
| 距离(distance) | 1 等价(l-equivalent) | 4.6.14 |
| 均匀连续(evenly continuous) | L 映射(L-mapping) | 3.6.8 |
| K | 离散度量(discrete metric) | 2.1.5 |
| Katětov-Morita 定理(Katětov-Morita theorem) | 离散拓扑(discrete topology) | 1.2.12 |
| 2.1.10 | 离散族(discrete family) | 1.5.4 |
| König 引理(König lemma) | 连续函数空间(space of continuous functions) | |
| Kuratowski 定理(Kuratowski theorem) | | |
| 2.5.4 | | |

| | | | |
|--|--------|--|--------------|
| | 4.3.1 | Polish 空间(Polish space) | 2.6.e, 5.6.8 |
| 连续统假设(continuum hypothesis) | 5.6.10 | Ponomarev 定理(Ponomarev theorem) | 3.3.2 |
| 零维空间(zero-dimensional space) | 2.1.10 | Ponomarev 系(Ponomarev system) | 3.3.0 |
| M | | Pytkeev 定理(Pytkeev theorem) | 6.3.2 |
| Michael-Nagami 定理(Michael-Nagami theorem) | 3.5.5 | P 空间(P-space) | 6.2.0 |
| Michael-Nagami 问题(Michael-Nagami problem) | 3.5.6 | q 点(q-point) | 5.2.11 |
| Michael 定理(Michael theorem) | 1.5.8 | q 空间(q-space) | 5.2.11 |
| Michael 空间(Michael space) | 3.6.14 | q 序列(q-sequence) | 5.2.11 |
| Michael 直线(Michael line) | 1.5.10 | 齐性空间(homogeneous space) | 1.7.7 |
| Miščenko 引理(Miščenko lemma) | 3.3.10 | 强 Fréchet 空间(strongly Fréchet space) | 2.4.3 |
| monolithic 空间(monolithic space) | 6.1.4 | 强 k 网络(strong k-network) | 3.5.16.D |
| Moore-Smith 网(Moore-Smith net) | 4.4.11 | 强离散族(strongly discrete family) | 5.6.13 |
| Moore 空间(Moore space) | 2.3.10 | 强零维空间(strongly zero-dimensional space) | |
| Morita 定理(Morita theorem) | 2.6.1 | | 2.1.10 |
| N | | 球形邻域(ball neighborhood) | 2.1.4 |
| Nagata 定理(Nagata theorem) | 4.6.13 | 全 λ 有界(totally λ -bounded) | 5.1.10 |
| Niemytzki 切圆盘拓扑(Niemytzki's tangent disc topology) | 6.1.9 | 权(weight) | 2.6.1 |
| 内射(injection) | 4.5.1 | 群(group) | 4.2.0 |
| 逆紧映射(perfect mapping) | 1.3.4 | R | 6.0.7 |
| 粘合空间(identification space) | 1.5.8 | R 商拓扑(R-quotient topology) | 6.0.7 |
| O | | R 商映射(R-quotient mapping) | 6.0.7 |
| 欧几里得度量(Euclidean metric) | 2.1.2 | 弱第一可数空间(weakly first-countable space) | 3.1.6 |
| 欧几里得空间(Euclidean space) | 2.1.2 | 弱 α 覆盖数(weak α -covering number) | 5.2.0 |
| P | | 弱权(weak weight) | 5.1.4 |
| perfect | 2.2.4 | 弱拓扑(weak topology) | 1.6.4 |
| picket fence 拓扑(picket fence topology) | 2.3.12 | 弱终于(weakly eventually in) | 4.4.11 |
| | | S | |

| | | | |
|---|---------------|--|---------------|
| Smirnov 删除序列拓扑(Smirnov's deleted sequence topology) | 2.3.5 | Tukey 引理(Tukey lemma) | 1.1.11 |
| Sorgenfrey 直线(Sorgenfrey line) | 5.4.4 | Tychonoff 方体(Tychonoff cube) | 1.1.12 |
| stable 空间(stable space) | 6.1.4 | Tychonoff 积定理(Tychonoff product theorem) | 1.1.12 |
| Stone-Čech 紧化(Stone-Čech compactification) | 1.2.8, 1.3.11 | Tychonoff 紧扩张定理(Tychonoff's compact extension theorem) | 1.3.9 |
| Stone-Weierstrass 定理(Stone-Weierstrass theorem) | 4.6.4 | Tychonoff 拓扑(Tychonoff topology) | 1.1.11 |
| Stone 定理(Stone theorem) | 2.2.5 | 特征(character) | 5.0.0 |
| Suslin 直线(Suslin line) | 2.3.4' | 同构(isomorphism) | 4.6.13 |
| s 映射(s-mapping) | 3.3.4 | 同胚(homeomorphism) | 1.1.9 |
| 扇 tightness(fan tightness) | 5.4.7 | 投影函数(projective function) | 1.1.11, 4.6.5 |
| 商空间(quotient space) | 1.5.8 | 拓扑和(topological sum) | 1.4.8, 1.6.7 |
| 商映射(quotient mapping) | 1.5.8 | 拓扑环(topological ring) | 4.2.1 |
| 上确界度量(supremum metric) | 4.4.6 | 拓扑群(topological group) | 4.2.1 |
| 上确界度量拓扑(supremum metric topology) | 4.4.6 | 拓扑同构(topological isomorphism) | 4.6.13 |
| 收缩(retraction) | 4.5.13 | 拓扑向量空间(topological vector space) | 4.2.6 |
| 收缩核(retract) | 4.5.13 | U | |
| 双箭空间(two arrows space) | 5.4.6 | Urysohn 度量化定理(Urysohn metrization theorem) | 2.3.4 |
| 双商映射(bi-quotient mapping) | 2.4.12 | Urysohn 空间(Urysohn space) | 6.0.6 |
| 双射(bijection) | 2.6.9 | Urysohn 引理(Urysohn lemma) | 1.2.11 |
| 选择公理(choice axiom 或 axiom of choice) | 1.0.0, 1.1.11 | W | |
| T | | wcs*网络(wcs*-network) | 3.5.e |
| Tietze 扩张定理(Tietze extension theorem) | 1.2.11 | Weierstrass 逼近定理(Weierstrass approximation theorem) | 4.6.4 |
| tightness | 5.4.0 | Weil 度量化定理(Weil metrization theorem) | 4.1.9 |
| Tukey 度量化定理(Tukey metrization theorem) | 2.3.13 | Whitehead 定理(Whitehead theorem) | 1.6.10 |
| | | 外基(outer base) | 3.4.6 |

| | | | |
|-----------------------------------|----------------|---|----------|
| 完全度量空间(complete metric space) | 2.5.1 | 序列邻域(sequential neighborhood) | 3.1.0 |
| 完全一致空间(complete uniform space) | 5.6.0 | 序列扇(sequential fan) | 3.1.8 |
| 网(net) | 4.4.11 | 序列商映射(sequentially quotient mapping) | |
| 网络(network) | 2.3.6, 2.6.0 | | 3.4.12 |
| 网络权(netweight) | 5.1.0 | 序数空间(space of ordinal numbers) | 1.2.7 |
| 伪度量(pseudo-metric) | 2.3.2 | 序拓扑(order topology) | 1.2.7 |
| 伪度量空间(pseudo-metric space) | 2.3.2 | | Y |
| 伪基(pseudo-base) | 3.5.e | 严格 Fréchet 空间(strictly Fréchet space) | 5.5.0 |
| 伪紧空间(pseudo-compact space) | 1.2.9 | 一点紧化(one-point compactification) | 1.3.7 |
| 伪距离(pseudo-distance) | 2.3.2 | 一一加细(one-to-one refinement) | 1.4.14 |
| 伪开映射(pseudo-open mapping) | 3.2.4 | 一致结构(uniformity) | 4.1.1 |
| 伪特征(pseudo-character) | 5.2.0 | 一致空间(uniform space) | 4.1.1 |
| 无处稠密集(nowhere dense set) | 1.7.5 | 一致连续(uniformly continuous) | 4.1.3 |
| | | 一致收敛(uniformly convergent) | 4.4.13 |
| | | 一致收敛度量(metric of uniform convergence) | |
| | | | 4.4.6 |
| | | 一致收敛空间(space of uniform convergence) | |
| 相对闭函数(relatively closed function) | 1.1.9 | | 4.4.8 |
| 相对函数空间(relative function space) | 6.0.8 | 一致收敛拓扑(topology of uniform convergence) | |
| 相对开函数(relatively open function) | 1.1.9 | | 4.4.0 |
| 星加细(star-refinement) | 1.5.1 | 一致拓扑(uniform topology) | 4.1.3 |
| 性质 C''(property C'') | 6.2.9 | 一致完全性(uniform completeness) | 5.6.0 |
| 性质 CC(property CC) | 3.4.4 | 依赖于可数个坐标(depend on countably many coordinates) | 4.6.5 |
| 序列闭集(sequentially closed set) | 3.1.0 | | |
| 序列覆盖映射(sequence-covering mapping) | 3.4.12, 3.5.15 | 遗传闭包保持族(hereditarily closure-preserving family) | 3.6.1 |
| 序列紧空间(sequentially compact space) | 1.2.5 | | |
| | | 遗传闭的网络(hereditarily closed network) | |
| | | | 4.3.11 |
| 序列开集(sequentially open set) | 3.1.0 | 因子引理(factorization lemma) | 6.1.1 |
| 序列空间(sequential space) | 3.1.2 | 映射(mapping) | 1.1.8 |

| | | | |
|--|-----------------------|------------------------------|----------------------|
| 有界集(bounded set) | 5.6.e | Arhangel'skiĭ A(俄, 1938-) | 2.3.6 |
| 有限补拓扑(finite complement topology) | Artin E(奥, 1898-1962) | | 3.3.6 |
| | 1.1.7 | Arzelà C(意, 1847-1912) | 4.0.0 |
| 有限交性质(finite intersection property) | 1.1.1 | Ascoli G(意, 1843-1896) | 4.0.0 |
| 有限特征(finite character) | 1.1.11 | Baire R(法, 1874-1932) | 1.7.5 |
| 酉代数(unitary algebra) | 4.6.0 | Banach S(波, 1892-1945) | 1.7.7 |
| 右半开区间拓扑(right half-open interval topology) | 5.4.4 | Bing R H(美, 1914-1986) | 1.5.4, 2.3.10 |
| 右序拓扑(right order topology) | 1.2.13 | Birkhoff G D(美, 1884-1944) | 1.2.8, 2.3.10, 4.2.5 |
| 诱导函数(induced function) | 4.5.4 | Birkhoff G(美, 1911-1996) | 3.1.7, 4.2.5 |
| Z | | | |
| Zermelo 良序定理(Zermelo well-ordering theorem) | 1.5.5 | Bolzano B(捷, 1781-1848) | 1.2.1 |
| Zorn 引理(Zorn lemma) | 3.3.6 | Boone J R | 3.4.13 |
| 粘合空间(identification space) | 1.5.8 | Borel É(法, 1871-1956) | 1.1.0 |
| 展开(development) | 2.3.10 | Borges C | 3.3.12 |
| 正规 Moore 空间猜想(normal Moore space conjecture) | 2.3.12 | Borsuk K(波, 1905-1982) | 4.5.13 |
| 直径(diameter) | 2.1.6 | Bourbaki N(法) | 1.3.4 |
| 正规 Moore 空间猜想(normal Moore space conjecture) | 2.3.12 | Burke D K | 1.5.10 |
| 直径(diameter) | 2.1.6 | Cantor G(德, 1845-1918) | 2.5.3 |
| 指数函数(exponential function) | 4.6.7 | Carathéodory C(德, 1873-1950) | 1.3.7 |
| 终于(eventually in) | 3.1.0 | Cartan H(法, 1904-) | 1.3.4 |
| 子覆盖(subcovering) | 1.1.0 | Cauchy A L(法, 1789-1857) | 2.1.3 |
| 子覆盖(subcovering) | 1.1.0 | Čech E(捷, 1893-1960) | 1.2.8 |
| 字典序(lexicographic ordering) | 5.4.6 | Chevalley C(法, 1909-1984) | 1.3.4 |
| 自然内射(natural injection) | 4.5.16 | Chittenden E W(美, 1895-1977) | 2.3.0, 2.3.10 |
| 自然映射(natural mapping) | 1.6.7 | Cohen D E | 1.6.11 |
| | | Cohen P J(美, 1934-) | 5.6.10 |
| 人名索引 | | | |
| Ahlfors L(芬, 1907-1996) | 1.4.6 | Delsarte J(法, 1903-1968) | 1.3.4 |
| Alexandroff P S(苏, 1896-1982) | 1.1.0, 2.3.6 | Dieudonné J(法, 1906-1992) | 1.0.0, 1.3.4 |
| Arens R(美, 1919-2000) | 3.1.7 | Dini U(意, 1845-1918) | 4.0.0 |
| | | Dowker C H(加, 1912-1982) | 1.1.11, 1.6.11 |

| | | | |
|--------------------------------|----------------|------------------------------|-----------------------|
| Dugundji J(美, 1919-1985) | 3.6.15 | Kummer E(德, 1810-1893) | 2.5.3 |
| Engelking R(波) | 1.2.8 | Kuratowski K(波, 1896-1980) | 1.2.8, 2.5.4 |
| Filippov(俄) | 3.3.8 | Lašnev N(俄) | 3.6.0 |
| Fitzpatrick Jr B(美, 1932-2000) | 2.3.10 | Lebesgue H(法, 1875-1941) | 1.1.0 |
| Fox R(美, 1913-1973) | 1.1.11, 4.0.0 | Lefschetz S(美, 1884-1972) | 1.1.11 |
| Fraenkel A(德, 1891-1965) | 1.0.0 | Leja F(波, 1885-1979) | 4.2.1 |
| Franklin S P | 3.1.0 | Lelek A | 6.2.3 |
| Fréchet F(法, 1878-1973) | 2.0.0, 4.0.0 | Lindelöf E(芬, 1870-1946) | 1.4.6 |
| Gillman L | 3.4.16 | Lindemann F(德, 1852-1939) | 2.1.3 |
| Gödel K(美, 1906-1978) | 5.6.10 | Lutzer D J | 3.2.11 |
| Gruenhage G(美) | 3.3.12 | Luzin N(苏, 1883-1950) | 1.1.0, 4.1.7 |
| Hadamard J(法, 1865-1963) | 4.0.0 | Marczewski E(波, 1907-1976) | 1.7.7 |
| Hahn H(波, 1879-1934) | 2.1.10, 5.6.10 | Mazurkiewicz S(波, 1888-1945) | 1.7.7, 4.5.13 |
| Hanai S(日) | 2.4.0 | McAuley L F | 3.2.11 |
| Hausdorff F(德, 1868-1942) | 1.1.4 | McCoy R A | 4.3.1 |
| Heath R W | 2.3.12 | Michael E | 1.0.0, 3.2.11, 3.3.12 |
| Henriksen M(美, 1927-) | 6.2.0 | Miščenko A(俄) | 3.3.10 |
| Hensel K(德, 1861-1941) | 1.0.0 | Moore E H(美, 1862-1932) | 2.3.0, 2.3.10, 4.2.5 |
| Hewitt E(美, 1920-1999) | 5.0.3 | Moore R L(美, 1882-1974) | 1.5.4, 2.3.10 |
| Hilbert D(德, 1862-1943) | 1.7.7, 2.1.3 | Morita K(日, 1915-1995) | 2.1.10 |
| Hurewicz W(波, 1904-1956) | 2.1.10, 3.6.15 | Nagami K(日) | 1.1.e |
| Janiszewski Z(波, 1888-1920) | 2.5.4 | Nagata J(日, 1925-) | 2.3.0 |
| Jones F B(美, 1910-1999) | 2.3.10, 3.2.11 | Niemytzki V V(苏) | 6.1.9 |
| Katětov M(捷, 1918-1995) | 2.1.10 | Poincaré J H(法, 1854-1912) | 4.2.5 |
| Kelley J L(美, 1917-1999) | 1.1.12 | Ponomarev V(俄) | 3.0.0 |
| Knaster B(波, 1893-1980) | 6.2.3 | Pontryagin L S(苏, 1908-1988) | 文献 |
| Kodama Y(日) | 1.1.e | Riesz F(匈, 1880-1956) | 1.1.7 |
| Kolmogorov A N(苏, 1903-1987) | 4.1.7 | Rudin M E(美, 1924-) | 2.3.10 |
| König D(匈, 1884-1944) | 1.1.e | Schwarz H A(德, 1843-1921) | 1.0.0 |
| König G(匈, 1849-1913) | 1.1.e | Sierpiński W(波, 1882-1969) | 1.7.7, 2.5.4 |

| | | | |
|-------------------------------|----------------|-------------|--------|
| Smirnov Ju(苏, 1921-) | 2.3.0 | 张素诚(1916-) | 1.6.10 |
| Smith H L(美, 1893-1957) | 2.3.10 | | |
| Sorgenfrey R H(美, 1915-1996) | 2.3.10, 3.1.0 | | |
| Steinhaus H(波, 1887-1972) | 1.7.7 | | |
| Stone A H(美, 1916-2000) | 1.1.11, 1.5.0 | | |
| Stone M H(美, 1903-1998) | 1.2.8 | | |
| Suslin M(苏) | 2.3.4' | | |
| Tamano H(日) | 3.4.13 | | |
| Tanaka Y(日) | 3.3.12 | | |
| Tarski A(波, 1902-1983) | 3.4.16 | | |
| Tietze H(奥, 1880-1964) | 1.1.5 | | |
| Tukey J W(美, 1915-2000) | 1.1.11 | | |
| Tychonoff A(苏, 1906-1993) | 1.1.11 | | |
| Urysohn P S(苏, 1898-1924) | 1.1.0 | | |
| Veblen O(美, 1880-1960) | 1.6.10, 2.3.10 | | |
| Vietoris L(奥, 1891-2002) | 1.1.e | | |
| Weierstrass K(德, 1815-1897) | 1.2.1, 2.5.3 | | |
| Weil A(法, 1906-1998) | 1.3.4, 4.1.0 | | |
| Whitehead A N(英, 1861-1947) | 1.6.10 | | |
| Whitehead J H C(英, 1904-1960) | 1.6.10 | | |
| Whyburn G T(美, 1904-1969) | 1.1.12, 2.3.10 | | |
| Worrell Jr J | 2.3.10 | | |
| Zermelo E(德, 1871-1953) | 1.0.0 | | |
| Zorn M(德, 1906-1993) | 3.3.6 | | |
| 戴牧民(1937-) | 2.3.12 | | |
| 方嘉琳(1925-) | 3.6.15 | | |
| 高国士(1919-2003) | 3.5.15 | | |
| 蒋继光(1935-) | 3.6.15 | | |
| 蒲保明(1910-1988) | 文献 | | |
| 熊金城(1938-) | 3.6.15 | | |