

References*

- Akhiezer, D. N. (1974): Compact complex homogeneous spaces with solvable fundamental group. *Izv. Akad. Nauk SSSR, Ser. Mat.* 38, No. 1, 59–80. English transl.: *Math. USSR, Izv.* 8, 61–83. Zbl.309. 22008
- Alekseevskij, D. B. (1974): Lie groups and homogeneous spaces. *Itogi Nauki Tekh., Ser. Algebra, Topologiya, Geom.* 11, 37–123. Zbl. 296. 22010. English transl.: *J. Sov. Math.* 4, 483–539
- Alekseevskij, D. B. (1979): On proper actions of Lie groups. *Usp. Mat. Nauk* 34, No. 1, 219–220. Zbl. 422. 53020. English transl.: *Russ. Math. Surv.* 34, No. 1, 215–216
- Alekseevskij, D. B. (1982): Lie groups. *Itogi Nauki Tekh., Ser. Algebra, Topologiya, Geom.* 20, 153–192. Zbl. 532. 22010. English transl.: *J. Sov. Math.* 28, 924–949 (1985)
- Auslander, L. (1973): An exposition of the structure of solvmanifolds. I, II. *Bull. Am. Math. Soc.* 79, No. 2, 227–261, 262–285. Zbl. 265. 22016 and Zbl. 265. 22017
- Auslander, L., Green, L., Hahn, F. (1963): *Flows on Homogeneous Spaces.* *Ann. Math. Stud.*, No. 53, Princeton Univ. Press, Princeton. Zbl. 106, 368
- Auslander, L., Szczarba, R. (1962): Characteristic classes of compact solvmanifolds. *Ann. Math.*, II. Ser., 76, No. 1, 1–8. Zbl. 114, 399
- Auslander, L., Szczarba, R. (1975a): Vector bundles over tori and noncompact solvmanifolds. *Am. J. Math.* 97, No. 1, 260–281. Zbl. 303. 22006
- Auslander, L., Szczarba, R. (1975b): On free nilmanifolds and their associated non-compact solvmanifolds. *Duke Math. J.* 42, No. 2, 357–369. Zbl. 333. 22005
- Auslander, L., Tolimieri, R. (1975): Abelian harmonic analysis, theta functions and function algebras on a nilmanifold. *Lect. Notes Math.* 436, Springer, Berlin. Zbl. 321. 43012
- Barth, W., Otte, M. (1969): Über fast-uniforme Untergruppen komplexer Liegruppen und auflösbare komplexe Mannigfaltigkeiten. *Comment. Math. Helv.* 44, No. 3, 269–281. Zbl. 172, 378
- Barut, A. O., Rączka, R. (1977): *Theory of Group Representations and Applications.* Polish Scient. Publishers, Warsaw
- Borel, A. (1950): Le plan projectif des octaves et les sphères comme espaces homogènes. *C. R. Acad. Sci., Paris* 230, No. 15, 1378–1380. Zbl. 41, 522

* For the convenience of the reader, references to reviews in *Zentralblatt für Mathematik* (Zbl.), compiled using the MATH database and *Jahrbuch über die Fortschritte der Mathematik* (Jbuch) have, as far as possible, been included in this bibliography.

- Borel, A. (1953): Sur la cohomologie des espaces fibrés principaux et des espaces homogènes de groupes de Lie compacts. *Ann. Math.*, II. Ser. 57, No. 1, 115–207. Zbl. 52, 400
- Borel, A. (1960): Seminar on transformation groups. *Ann. Math. Stud.* No. 46, Princeton Univ. Press, Princeton. Zbl. 91, 372
- Borel, A., Tits, J. (1965): Groupes réductifs. *Publ. Math.*, Inst. Hautes Etud. Sci. 27, 659–755. Zbl. 145, 174
- Bourbaki, N. (1960): *Topologie générale*, Ch.3, 4. 3-ème ed. Hermann, Paris. Zbl. 102, 271
- Bourbaki, N. (1968): *Groupes et algèbres de Lie*. Ch.4–6. Hermann, Paris. Zbl. 186, 330
- Bourbaki, N. (1982): *Groupes et algèbres de Lie*, Ch.9. Masson, Paris. Zbl. 505. 22006
- Bredon, G. E. (1972): *Introduction To Compact Transformation Groups*. Acad. Press, New York, London. Zbl. 246. 57017
- Chebotarev, N. G. (1940): *Theory of Lie Groups*. GITTL, Moscow, Leningrad (Russian)
- Chevalley, C. (1946): *Theory of Lie Groups*. Vol. I. Princeton Univ. Press, Princeton
- D'Atri, J. E., Ziller, W. (1979): Naturally Reductive Metrics and Einstein Metrics on Compact Lie Groups. *Mem. Am. Math. Soc.* 18, No. 215. Zbl. 404. 53044
- Dao Van Tra (1975): On spherical sections on a compact homogeneous space. *Usp. Mat. Nauk* 30, No. 5, 203–204 (Russian). Zbl. 321. 57026
- Dao Van Tra (1981): On extensions of groups acting transitively on compact manifolds. In *Geom. Metody Zadachakh Algebr Anal.*, 87–106 (Russian). Zbl. 485. 22019
- Dubrovin, B. A., Novikov, S. P., Fomenko, A. T. (1980): *Modern Geometry*. Nauka, Moscow. Zbl. 433. 53001. English transl.: *Grad. Texts Math.* 93, 1984, and 104, 1985. Springer, New York
- Dynkin, E. B., Onishchik, A. L. (1955): Compact global Lie groups. *Usp. Mat. Nauk* 10, No. 4, 3–74. Zbl. 65, 262. English transl.: *Amer. Math. Soc. Transl.* 21 (1962), 119–192
- Eisenhart, L. P. (1933): *Continuous Groups of Transformations*. Princeton University Press, Princeton; Humphrey Milford, London. Zbl. 8, 108
- Fujimoto, H., (1968): On the holomorphic automorphism groups of complex spaces. *Nagoya Math. J.* 33, 85–106. Zbl. 165, 404
- Golubitsky, M. (1972): Primitive actions and maximal subgroups of Lie groups. *J. Differ. Geom.* 7, No. 1–2, 175–191. Zbl. 265. 22024
- Golubitsky, M., Rothschild, B. (1971): Primitive subalgebras of exceptional Lie algebras. *Pac. J. Math.* 39, No. 2, 371–393. Zbl. 209, 66
- Gorbatsevich, V. V. (1974): On a class of factorizations of semi-simple Lie groups and Lie algebras. *Mat. Sb.*, Nov. Ser. 95, No. 2, 294–304. Zbl. 311. 22017. English transl.: *Math. USSR, Sb.* 24, 287–297
- Gorbatsevich, V. V. (1977a): On three-dimensional homogeneous spaces. *Sib. Mat. Zh.* 18, No. 2, 280–293. Zbl. 373. 14017. English transl.: *Sib. Math. J.* 18, 200–210
- Gorbatsevich, V. V. (1977b): On the classification of four-dimensional compact homogeneous spaces. *Usp. Mat. Nauk* 32, No. 2, 207–208 (Russian). Zbl. 362. 57020
- Gorbatsevich, V. V. (1977c): On Lie groups acting transitively on compact solvmanifolds. *Izv. Akad. Nauk SSSR, Ser. Mat.* 41, No. 2, 285–307. Zbl. 362. 57012. English transl.: *Math. USSR, Izv.* 11, 271–292.
- Gorbatsevich, V. V. (1979): Splittings of Lie groups and their applications to the study of homogeneous spaces. *Izv. Akad. Nauk SSSR, Ser. Mat.* 43, No. 6, 1127–1157. Zbl. 424. 22006. English transl.: *Math. USSR, Izv.* 11, 271–292.
- Gorbatsevich, V. V. (1980): On compact homogeneous spaces of low dimension. In *Geom. Metody Zadachakh Algebr Anal.* 2, 37–60 (Russian). Zbl. 475. 53043
- Gorbatsevich, V. V. (1981a): On compact homogeneous spaces with solvable fundamental group I. In *Geom. Metody Zadachakh Algebr Anal.* 1981, 71–87 (Russian) Zbl. 499. 57015
- Gorbatsevich, V. V. (1981b): On a fibration of a compact homogeneous space. *Tr. Mosk. Mat. O.-va* 43, 116–141. English transl.: *Trans. Mosc. Math. Soc.* No. 1, 128–157 (1983). Zbl. 525. 57034

- Gorbatsevich, V. V. (1981c): Modifications of transitive actions of Lie groups on compact manifolds and their applications. In *Vopr. Teor. Grupp Gomologicheskoy Algebr*, 131–145 (Russian). Zbl. 506. 57022
- Gorbatsevich, V. V. (1981d): Two fibrations of a compact homogeneous space and some applications. *Izv. Vyssh. Uchebn. Zaved., Mat. No. 6*, 73–75. Zbl. 492. 57013. English transl.: *Sov. Math.* 25, No. 6, 73–75
- Gorbatsevich, V. V. (1981e): On compact homogeneous spaces with semi-simple fundamental group I. *Sib. Mat. Zh.* 22, No. 1, 47–67. Zbl. 486. 57019. English transl.: *Sib. Math. J.* 22, 34–49
- Gorbatsevich, V. V. (1982): On compact homogeneous spaces with solvable fundamental group II. *Vopr. Teor. Grupp Gomologicheskoy Algebr*, 13–28 (Russian). Zbl. 583. 57014
- Gorbatsevich, V. V. (1983a): On a class of compact homogeneous spaces. *Izv. Vyssh. Uchebn. Zaved., Mat.* 9, 18–21. Zbl. 564. 57019. English transl.: *Sov. Math.* 27, No. 9, 18–22
- Gorbatsevich, V. V. (1983b): Compact aspherical homogeneous spaces up to a finite covering. *Ann. Global. Anal. Geom.* 1, No. 3, 103–118. Zbl. 535. 57024
- Gorbatsevich, V. V. (1985): On compact homogeneous spaces with solvable fundamental group III. *Vopr. Teor. Grupp Gomologicheskoy Algebr*, 93–103 (Russian)
- Gorbatsevich, V. V. (1986a): On Lie groups with lattices and their properties. *Dokl. Akad. Nauk SSSR* 287, No 1, 33–37. English transl.: *Sov. Math., Dokl.* 33, 321–325. Zbl. 619. 22014
- Gorbatsevich, V. V. (1986b): On compact homogeneous spaces with semi-simple fundamental group II. *Sib. Mat. Zh.* 37, No. 5, 38–49. English transl.: *Sib. Math. J.* 27, 660–669. Zbl. 644. 57006
- Gorbatsevich, V. V. (1988): On some classes of homogeneous spaces close to compact. *Dokl. Akad. Nauk SSSR* 303, No. 4, 785–788. English transl.: *Sov. Math. Dokl.* 38, No. 3, 592–596. Zbl. 703. 22006
- Goto, M., Wang, H.-C. (1978): Non-discrete uniform subgroups of semi-simple Lie groups. *Math. Ann.* 198, No. 4, 259–286. Zbl. 228. 22014
- Helgason, S. (1962): *Differential Geometry and Symmetric Spaces*. Academic Press. New York, London. Zbl. 111, 181
- Hermann, R. (1965): Compactification of homogeneous spaces. I. *J. Math. Mech.* 14, No. 4, 655–678. Zbl. 141, 196
- Hsiang, W. C., Hsiang, W. Y. (1967): Differentiable actions of compact connected classical groups. I. *Am. J. Math.* 89, No. 3, 705–786. Zbl. 184, 272
- Hsiang, W. Y. (1975): *Cohomology Theory of Topological Transformation Groups*. Springer, Berlin. Zbl. 429. 57011
- Hsiang, W. Y., Su, J. C. (1968): On the classification of transitive actions on Stiefel manifolds. *Trans. Am. Math. Soc.* 130, No. 2, 322–336. Zbl. 429. 57011
- Husemoller, D. (1966): *Fibre Bundles*. McGraw-Hill, New York. Zbl. 199, 271
- Ibragimov, N. Kh. (1983): *Transformation Groups in Mathematical Physics*. Nauka, Moscow. Zbl. 529. 53014. English transl.: Reidel, Dordrecht 1985
- Iwahori, N., Sugiura, M. (1966): A duality theorem for homogeneous manifolds of compact Lie groups. *Osaka J. Math.* 3, No. 1, 139–153. Zbl. 158, 277
- Jänich, K. (1968): *Differenzierbare G -Mannigfaltigkeiten*. *Lect. Notes Math.* 59, Springer, Berlin. Zbl. 159, 537
- Johnson, R. (1972): Presentation of solvmanifolds. *Am. J. Math.* 94, No. 1, 82–102.
- Kamerich, B. N. P. (1977): *Transitive transformation groups of products of two spheres*. Krips Repro. Meppel.
- Kantor, I. L. (1974): The double ratio of four points and other invariants on homogeneous spaces with parabolic stabilizers. *Seminar on Vector and tensor analysis* 17, 250–313 (Russian)
- Karpelevich, F. I. (1953): Surfaces of transitivity of a semi-simple subgroup of the group of motions of a symmetric space. *Dokl. Akad. Nauk SSSR* 93, 401–404 (Russian)

- Karpelevich, F. I. (1956): On fibrations of homogeneous spaces. *Uspehi Mat Nauk* 11, No. 3, 131–138 (Russian)
- Kaup, W. (1967): Reelle Transformationsgruppen und invariante Metriken auf komplexen Räumen. *Invent. Math.* 3, No. 1, 43–70
- Kim Sen En, Morozov, V. V. (1955): On imprimitive groups of the three-dimensional complex space. *Uch. Zap. Kazh. Univ.* 115, No. 14, 69–85 (Russian)
- Kobayashi, S. (1972): *Transformation Groups in Differential Geometry*. Springer, Berlin. Zbl. 246. 53031
- Komrakov, B. P. (1990): Maximal subalgebras of semisimple real Lie algebras and a problem of Sophus Lie. *Dokl. Akad. Nauk SSSR* 311, No. 3, 528–532. English transl.: *Sov. Math., Dokl.* 41, No. 2, 269–273
- Komrakov, B. P. (1991): Primitive actions and the problem of Sophus Lie. *Vysheishaya Shkola Minsk* (Russian)
- Koszul, J. L. (1978): Variante d'un théorème de H. Ozeki. *Osaka J. Math.* 15, 547–551. Zbl. 395. 17008
- Kreck, M., Stolz, S. (1988): A diffeomorphism classification of 7-dimensional homogeneous Einstein manifolds with $SU(3) \times SU(2) \times U(1)$ -symmetry. *Ann. Math., II. Ser.* 127, No. 2, 373–388. Zbl. 649. 53029
- Lie, S., Engel, F. (1888): *Theorie der Transformationsgruppen I*. Teubner, Leipzig. Jbuch. 21, 356
- Lie, S., Engel, F. (1890): *Theorie der Transformationsgruppen II*. Teubner, Leipzig. Jbuch. 23, 364
- Lie, S., Engel, F. (1893): *Theorie der Transformationsgruppen III*. Teubner, Leipzig. Jbuch. 25, 632
- Lukatskij, A. M. (1971): Spherical functions on G -spaces of non-compact Lie groups. *Uspehi Mat. Nauk* 26, No. 5, 212–213 (Russian).
- Maltsev, A. I. (1949): On a class of homogeneous spaces. *Izv. Akad. Nauk SSSR. Ser. Mat.* 13, No. 1, 9–32 (Russian). Zbl. 34, 17
- Malyshev, F. M. (1975): Decompositions of almost compact Lie algebras. *Vestn. Mosk. Univ., Ser. I* 30 No. 2, 87–90. Zbl. 297. 17003. English transl.: *Mosc. Univ. Math. Bull.* 30, No. 1/2, 143–146
- Malyshev, F. M. (1978): On decompositions of nilpotent Lie algebras. *Mat. Zametki* 23, No. 1, 27–30. Zbl. 373. 17005. English transl.: *Math. Notes* 23, 17–18
- Manturov, O. V. (1966): Homogeneous Riemannian spaces with irreducible rotation group. *Tr. Semin. Vektorn. Tenzorn. Anal.* 13, 68–145 (Russian). Zbl. 173, 241
- Massey, W. (1967): *Algebraic Topology: An Introduction*. Harcourt, Brace & World, Inc., New York. Zbl. 153, 259
- Mather, J. N. (1977): Differentiable invariants. *Topology* 16, No. 2, 145–155. Zbl. 376. 58002
- Merzlyakov, Yu. I. (1980): *Rational Groups*. Nauka, Moscow (Russian). Zbl. 518. 20032
- Milovanov, M. B. (1980): Description of solvable Lie groups with a given uniform subgroup. *Mat. Sb., Nov. Ser.* 113, No. 1, 98–117 (Russian). Zbl. 496. 22013
- Mkhitarian, V. G. (1981): On a class of homogeneous spaces of compact Lie groups. *Usp. Mat. Nauk* 36, No. 2, 193–194. English transl.: *Russ. Math. Surv.* 36, No. 2, 185–186. Zbl. 502. 57023
- Montgomery, D., Samelson, H. (1943): Transformation groups on spheres. *Ann. Math., II. Ser.* 44, No. 3, 454–470
- Montgomery, D., Zippin, L. (1955): *Topological Transformation Groups*. Wiley, New York. Zbl. 68, 19
- Moore, C., C. (1984): Cocompact subgroups of semi-simple Lie groups. *J. Reine Angew. Math.* 350, 173–177. Zbl. 525. 22017
- Morozov, V. V. (1939): On primitive groups. *Mat. Sb., Nov. Ser.* 5, No. 2, 355–390 (Russian). Zbl. 23, 15
- Mostow, G. D. (1950): The extensibility of local Lie groups of transformations and groups on surfaces. *Ann. Math., II. Ser.* 52, No. 3, 606–636. Zbl. 40, 152

- Mostow, G. D. (1954): Factor spaces of solvable groups. *Ann. Math.*, II. Ser. 60, No. 1, 1–27. Zbl. 57, 261
- Mostow, G. D. (1955a): Some new decomposition theorems for semi-simple groups. *Mem. Am. Math. Soc.* 14, 31–54. Zbl. 64, 259
- Mostow, G. D. (1955b): On covariant fiberings of Klein spaces I. *Am. J. Math.* 77, No. 2, 247–278. Zbl. 67, 160
- Mostow, G. D. (1957): Equivariant embeddings in Euclidean space. *Ann. Math.*, II. Ser. 65, No. 3, 432–446. Zbl. 80, 167
- Mostow, G. D. (1961): On maximal subgroups in real Lie groups. *Ann. Math.*, II. Ser. 74, No. 3, 503–517. Zbl. 80, 167
- Mostow, G. D. (1962a): Homogeneous spaces with finite invariant measure. *Ann. Math.*, II. Ser. 75, No. 1, 17–37. Zbl. 115, 257
- Mostow, G. D. (1962b): Covariant fiberings of Klein spaces II. *Am. J. Math.* 84, No. 3, 466–474. Zbl. 123, 163
- Mostow, G. D. (1971): Arithmetic subgroups of groups with radical. *Ann. Math.*, II. Ser. 93, No. 3, 409–438. Zbl. 212, 364
- Mostow, G. D. (1975): On the topology of homogeneous spaces of finite measure. *Symp. Math. Ist. Naz. Alta Mat.* 16, Acad. Press, 375–398. Zbl. 319, 22008
- Nagano, T. (1965): Transformation groups on compact symmetric spaces. *Trans. Am. Math. Soc.* 118, 428–453. Zbl. 151, 288
- Nakamura, I. (1975): Complex parallelisable manifolds and their small deformations. *J. Differ. Geom.* 10, No. 1, 85–112. Zbl. 297, 32019
- Nazaryan, R. O. (1975a): On factorization of simple real Lie groups. *Izv. Akad. Nauk Arm. SSR*, 10, No. 1, 3–22 (Russian). Zbl. 308, 22011
- Nazaryan, R. O. (1975b): Minimal factorizations of simple real Lie groups. *Izv. Akad. Nauk Arm. SSR, Mat.* 10, No. 5, 455–477 (Russian). Zbl. 335, 22008
- Nazaryan, R. O. (1981): More about factorizations of simple real Lie groups. In *Vopr. Teor. Grupp Gomologicheskoy Algebrы*, 69–79 (Russian)
- Onishchik, A. L. (1960): Complex envelopes of compact homogeneous spaces. *Dokl. Akad. Nauk SSSR* 130, No. 4, 726–729 (Russian). Zbl. 90, 94
- Onishchik, A. L. (1962): Inclusion relations between transitive compact transformation groups. *Tr. Mosk. Mat. O-va*, 11, 199–242. Zbl. 192, 126. English transl.: *Transl.*, II. Ser., *Am. Math. Soc.* 50, 5–58 (1966).
- Onishchik, A. L. (1963): On transitive compact transformation groups. *Mat. Sb., Nov. Ser.* 60, No. 4, 447–485. Zbl. 203, 263. English transl.: *Transl.*, II. Ser., *Am. Math. Soc.* 55, 153–194 (1966).
- Onishchik, A. L. (1966): On Lie groups, acting transitively on compact manifolds. I, *Mat. Sb., Nov. Ser.* 71, No. 4, 483–494. Zbl. 198, 289. English transl.: *Transl.*, II. Ser., *Am. Math. Soc.* 73, 59–72 (1968)
- Onishchik, A. L. (1967): On Lie groups, acting transitively on compact manifolds. II, *Mat. Sb., Nov. Ser.* 74, No. 3, 398–416. Zbl. 198, 289. English transl.: *Math. USSR, Sb.* 3, 373–388 (1968)
- Onishchik, A. L. (1968): On Lie groups, acting transitively on compact manifolds. III, *Mat. Sb., Nov. Ser.* 75, No. 2, 255–263. Zbl. 198, 290. English transl.: *Math. USSR, Sb.* 4, 233–240 (1969)
- Onishchik, A. L. (1969): Decompositions of reductive Lie groups. *Mat. Sb., Nov. Ser.* 80, No. 4, 553–599. Zbl. 222, 22011. English transl.: *Math. USSR, Sb.* 9, 515–554
- Onishchik, A. L. (1970): Lie groups which act transitively on Grassmann and Stiefel manifolds. *Mat. Sb., Nov. Ser.* 83, No. 3, 407–428. Zbl. 206, 317. English transl.: *Math. USSR, Sb.* 12, 405–427
- Onishchik, A. L. (1976): On invariants and almost invariants of compact Lie groups of transformations. *Tr. Mosk. Mat. O.-va* 35, 235–264. Zbl. 406, 57025. English transl.: *Trans. Mosc. Math. Soc.*, 35, 237–267

- Onishchik, A. L. (1977, 1981): On extensions of transitive transformation groups. *Izv. Vyssh. Uchebn. Zaved., Mat. No. 3*, 53–65. Zbl. 362. 57007. Corrections. (1981) No. 7, 88. Zbl. 474. 57021. English transl.: *Sov. Math. 21*, 42–51, and *25*, 104–105
- Onishchik, A. L. (1979): Remark on invariants of groups generated by reflections. In *Vopr. Teor. Grupp Gomologicheskoy Algebr*, 138–141. Zbl. 435.20026. English transl.: *Selecta Math. Sov. 3* (1983/84), 239–241
- Oniščik (= Onishchik), A. L. (1981): Parabolic factorizations of semi-simple algebraic groups. *Math. Nachr. 104*, 315–329. Zbl. 531. 20023
- Oniščik (= Onishchik), A. L. (1988): On the centre of a transitive semisimple Lie group. *Ann. Global Anal. Geom. 6*, No. 3, 265–272. Zbl. 685.57023
- Ovsyannikov, L. V. (1978): *Groups Analysis of Differential Equations*. Nauka, Moscow (Russian). Zbl. 484.58001
- Palais, R. S. (1957 a): A Global Formulation of the Lie Theory of Transformation Groups. *Mem. Am. Math. Soc. 22*. Zbl. 178, 265
- Palais, R. S. (1957 b): Imbedding of compact, differentiable transformation groups in orthogonal representations. *J. Math. Mech. 6*, No. 5, 673–678. Zbl. 86, 26
- Palais, R. S. (1960): The Classification of G -Spaces. *Mem. Am. Math. Soc. 36*. Zbl. 119, 384
- Palais, R. S. (1968): *Foundations of Global Non-linear Analysis*. Benjamin. New York-Amsterdam. Zbl. 164, 111
- Palais, R. S., Stewart, T. S. (1961a): Torus bundles over a torus. *Proc. Am. Math. Soc. 12*, No. 1, 26–29. Zbl. 102, 387
- Palais, R. S., Stewart, T. S. (1961b): The cohomology of differentiable transformation groups. *Am. J. Math. 83*, No. 4, 623–644. Zbl. 104, 177
- Pontryagin, L. S. (1984): *Topological Groups*. 4th edition. Nauka, Moscow. Zbl. 534.22001. German transl.: Teubner, Leipzig, 1957/1958
- Raghunathan, M. (1972): *Discrete Subgroups of Lie Groups*. Springer, Berlin. Zbl. 254. 22005
- Samelson, H. (1952): Topology of Lie groups. *Bull. Am. Math. Soc. 58*, No. 1, 2–37. Zbl. 47, 167
- Samelson, H. (1958): On curvature and characteristic of homogeneous spaces. *Mich. Math. J. 5*, No. 1, 13–18. Zbl. 84,374
- Scheerer, H. (1971): Transitive actions on Hopf homogeneous spaces. *Manuscr. Math. 4*, No. 2, 99–134. Zbl. 212, 286
- Schneider, V. (1973): Transitive actions on highly connected spaces. *Proc. Amer. Math. Soc. 38*, No. 1, 179–185
- Schneider, V. (1975): Homogeneous spaces with vanishing Steenrod squaring operations. *Proc. Amer. Math. Soc. 50*, 451–458
- Schultz, R. (1984): Nonlinear analogs of linear group actions on spheres. *Bull. Am. Math. Soc., New Ser. 11*, No. 2, 263–285. Zbl. 564. 57001
- Schwarz, G. W. (1975): Smooth functions invariant under the action of a compact Lie group. *Topology 14*, No. 1, 63–68. Zbl. 297.57015
- Serre, J-P. (1951): Homologie singulière des espaces fibrés. Applications. *Ann. Math., II. Ser. 54*, No. 3, 425–505. Zbl. 45, 260
- Serre, J-P. (1971): *Cohomologie des Groupes Discrets*. *Ann. Math. Stud.*, No. 70, Princeton Univ. Press, Princeton, 77–169. Zbl. 235.22020
- Shchetinin, A. (1988): On a class of compact homogeneous spaces I. *Ann. Global Anal. Geom. 6*, No. 2, 119–140. Zbl. 635.57025
- Shchetinin, A. (1990): On a class of compact homogeneous spaces II. *Ann. Global Anal. Geom. 8*, No. 3, 227–247. Zbl. 718.57014
- Steenrod, N (1951): *The Topology of Fibre Bundles*. Princeton Univ. Press, Princeton. Zbl. 54, 71
- Sternheimer, D. (1968): Extensions et unifications d'algèbres de Lie. *J. Math. Pures Appl., IX. Sér. 47*, No. 3, 247–287. Zbl. 244.17015

- Sulanke, R., Wintgen, P. (1972): Differentialgeometrie und Faserbündel. Deutscher Verlag des Wissenschaften, Berlin. Zbl. 327. 53020
- Tits, J. (1962): Espaces homogènes complexes compacts. *Comment Math. Helv.* 37, No. 2, 111–120. Zbl. 108, 363
- Vinberg, E. B. (1961): The Morozov–Borel theorem for real Lie groups. *Dokl. Akad Nauk SSSR* 141, No. 2, 270–273. English transl.: *Sov. Math., Dokl.* 2, 1416–1419. Zbl. 112, 25
- Vinberg, E. B. (1963): Lie groups and homogeneous spaces. *Itogi Nauki Tekh., Ser. Algebra, Topologiya.* 1962, 5–32 (Russian). Zbl. 132, 22
- Vishik, E. Ya. (1973): Lie groups, transitive on simply connected compact manifolds. *Mat. Sb., Nov. Ser.* 92, No. 4, 564–570. Zbl. 289. 22007. English transl.: *Math. USSR, Sb.* 21, 558–564
- Vladimirov, S. A. (1979): Groups of Symmetries of Differential Equations and Relativistic Fields. Atomizdat, Moscow. Zbl. 399. 58021
- Wang, H.-C. (1954): Closed manifolds with homogeneous complex structures. *Am. J. Math.* 76, No. 1, 1–32. Zbl. 55, 166
- Wang, H.-C. (1956): Discrete subgroups of solvable Lie groups. *Ann. Math., II. Ser.* 64, No. 1, 1–19. Zbl. 73, 285
- Warner, F. W. (1983): Foundations of Differentiable Manifolds and Lie Groups. Springer, New York. Zbl. 516. 58001
- Wasserman, A. (1969): Equivariant differential topology. *Topology* 8, No. 2, 127–150. Zbl. 215, 247
- Wells, R. O. (1973): Differential Analysis on Complex Manifolds. Prentice Hall, Englewood Cliffs. Zbl. 262. 32005. 2nd ed. (1980) Springer, New York. Zbl. 435. 32004
- Wolf, J. A. (1968): The geometry and structure of isotropy-irreducible homogeneous spaces. *Acta Math.* 120, 59–148. Zbl. 157, 521
- Wolf, J. A. (1972): Spaces of Constant Curvature. Univ. of California Press, Berkeley. Zbl. 162, 533. 3rd. ed. (1974) Publish or Perish, Boston. Zbl. 281. 53034
- Zabotin, Ya. I. (1958a): Semisimple transitive imprimitive groups of the four-dimensional complex space. *Izv. Vyssh. Uchebn. Zaved., Mat.* 1958, No. 4, 67–79 (Russian). Zbl. 125, 17
- Zabotin, Ya. I. (1958b): On transitive imprimitive groups with radical in the four-dimensional complex space. *Izv. Vyssh. Uchebn. Zaved., Mat.* 1958, No. 5, 73–85 (Russian). Zbl. 125, 17
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