

VICTOR KAC PUBLICATIONS

Books:

1. *Infinite dimensional Lie algebras*, Birkhäuser, Boston, 1983 (second edition, Cambridge University Press, 1985) (third edition, Cambridge University Press, 1990). Russian translation, MIR, Moscow, 1993. Chinese translation, 2006.
2. *Infinite dimensional groups with applications*, ed., Publ. MSRI 4, 1985.
3. (with A. Raina) *Bombay lectures on highest weight representations*, World Scientific, 1987.
4. (with A. Raina and N. Rozhkovskaya) *Bombay lectures on highest weight representations*, Second edition, World Scientific, 2013.
5. *Infinite-dimensional Lie algebras and groups*, ed., *Adv. Ser. in Math. Phys.*, vol. 7, 1989.
6. (with V. Guillemin, J.-L. Brylinsky and R. Brylinsky) *Lie theory and geometry*, ed., Birkhäuser, Boston, 1994.
7. *Vertex algebras for beginners*, University lecture series, AMS, vol. 10, 1996 (second edition, AMS, 1998). Russian translation, Moscow 2005.
8. (with C. Martinez and E. Zelmanov) Graded simple Jordan superalgebras of growth one, *Memoirs of AMS* 711, 2001, pp 1-140.
9. (with P. Cheung) *Quantum calculus*, Springer-Verlag, 2002. Russian translation, Moscow 2005. Persian translation, 2015.
10. (with R. Kellerhals, F. Knop, P. Littelmann, D. Panyushev) *Vinberg volume*, ed., *J. Algebra* **313**, Springer-Verlag, 2007.
11. (with R. Panyushev, E. Vinberg) *Morozov volume*, ed., *Transf. Groups* **15**, Springer-Verlag, 2010.
12. (with S. Gindikin, E. Vinberg) *Dynkin volume*, ed., *Transf. Groups* **19**, Springer-Verlag, 2014.
13. (with V. Popov) *Lie groups, geometry and representation theory. Kostant memorial volume*, ed., *Progress in Math* **326**, Springer-Verlag, 2018.

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4. Graded Lie algebras and symmetric spaces, *Funkt. Analys y ego prilozh.* **2** (1968), No. 2, 93–94 (English translation: *Funct. Anal. Appl.* **2** (1968), 183–184).
5. Simple irreducible graded Lie algebras of finite growth, *Izvestija AN USSR (ser. Math.)* **32** (1968), 1923–1967 (English translation: *Math. of USSR-Izvestija* **2** (1968), 1271–1311).
6. Some properties of the contragredient Lie algebras, *Trudy MIEM*, No. 5, 1969, 48–60.
7. An algebraic definition of compact Lie groups, *Trudy MIEM*, No. 5, 1969, 36–47.
8. Automorphisms of finite order of semi-simple Lie algebras, *Funkt. analys y ego prilozh.* **3** (1969), No. 3, 94–96 (English translation: *Funct. Anal. Appl.* **3** (1969), 252–254).
9. On classifications of simple Lie algebras over fields of non-zero characteristics, *Izvestija AN USSR (ser. Math.)* **34** (1970), 381–404 (English translation: *Math of USSR-Izvestija* **4** (1970), 391–413).
10. (with B. Weisfeiler) Exponentials in Lie algebras of characteristic p , *Izvestija AN USSR (ser. Math.)* **35** (1971), 762–788 (English translation: *USSR-Izvestija* **5** (1971), 777–803).
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14. On irreducible representations of Lie algebras of classical type, *Uspehi Math. Nauk.* **27** (1972), No. 5, 237–238.
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19. Classification of simple Lie superalgebras, *Funct. Anal. y ego Prilozh.* **9** (1975), No. 3, 91–92; letter to the editor, **10** (1976), No. 2, **93** (English translation: *Funct. Anal. Appl.* **9** (1975), 263–265).

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