Numerical integration of differential dynamical equations. Vortex dynamics applications

Vestnik Udmurtskogo Universiteta. Matematika. Mekhanika. Komp'yuternye Nauki, 2008, вып. 1, 127–132

References

- [1] Bogomolov V. A., “Dinamika zavikhrennosti na sfere”, *Izv. AN. SSSR. Mekh. zhid. i gaza*, 1977, no. 6, 57–65 [MathSciNet](#) [Zentralblatt MATH](#)
- [2] Borisov A. V., Mamaev I. S., “Matematicheskie metody dinamiki vikhrevykh struktur”, *V sb. Fundamentalnye i prikladnye problemy teorii vikhrei*, eds. Borisov A. V., Mamaev I. S., Sokolovskii M. A., NITs RKhD, 2003, 704 pp.
- [3] Borisov A. V., Mamaev I. S., *Puassonovy struktury i algebry Li v gamiltonovoi mekhanike*, Izd. dom. “Udmurtskii universitet”, Izhevsk, 1999, 464 pp. [MathSciNet](#) [Zentralblatt MATH](#)
- [4] Ziglin S. L., “Neintegrirovannost zadachi o dvizhenie chetyrekh tochechnykh vikhrei”, *DAN SSSR*, **250**:6 (1979), 1296–1300 [Math-Net.Ru](#) [MathSciNet](#)
- [5] Kozlov V. V., *Simmetrii, topologiya i rezonansy v gamiltonovoi mekhanike*, Izd-vo UdGU, Izhevsk, 1995 [MathSciNet](#) [Zentralblatt MATH](#)
- [6] Uintner A., *Analiticheskie osnovy nebesnoi mekhaniki*, Nauka, M., 1967
- [7] Sharle K. L., *Nebesnaya mekhanika*, Nauka, M., 1966, 627 pp. [MathSciNet](#)
- [8] Aref H., Pomphrey N., “Integrable and chaotic motions of four vortices. I. The case of identical vortices”, *Proc. R. Soc. London A*, **380** (1982), 359–387 [doi](#) [MathSciNet](#) [Zentralblatt MATH](#) [ads*](#)
- [9] Bolsinov A. V., Borisov A. V., Mamaev I. S., “Lie algebras in vortex dynamics and celestial mechanics IV”, *Reg. & Chaot. Dyn.*, **4**:1 (1999), 23–50 [doi](#) [MathSciNet](#) [Zentralblatt MATH](#)
- [10] Eckhardt B., “Integrable four vortex motion”, *Phys. Fluids*, **31**:10 (1988), 2796–2801 [doi](#) [MathSciNet](#) [Zentralblatt MATH](#) [ads*](#) [WEB OF SCIENCE™](#)
- [11] Khanin K. M., “Quasi-periodic motions of vortex systems”, *Physica D*, **4** (1982), 261–269 [doi](#) [MathSciNet](#) [Zentralblatt MATH](#) [ads*](#)
- [12] Lim C. C., “A combinatorial perturbation method and Arnold’s whiskered tori in vortex dynamics”, *Physica D*, **64** (1993), 163–184 [doi](#) [MathSciNet](#) [Zentralblatt MATH](#) [ads*](#)
- [13] Lim C. C., “Graph theory and special class of symplectic transformations: the generalized Jacobi variables”, *J. Math. Phys.*, **32**:1 (1991), 1–7 [doi](#) [MathSciNet](#) [Zentralblatt MATH](#) [ads*](#) [WEB OF SCIENCE™](#)
- [14] Newton P. K., *The N-Vortex problem. Analytical Techniques*, Springer, 2001 [MathSciNet](#)