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1. Cesari, L. "Periodic Solutions of Hyperbolic Partial Differential Equations" in *Proc. Internat. Sympos. Non-linear Vibrations, Kiev, 1961*, **2**, 440–457 (Izd. Akad. Nauk Ukrain. SSR, Kiev, 1963).
2. Vejvoda, O. "Periodic Solutions of a Linear and Weakly Nonlinear Wave Equation in One Dimension. I", *Czech. Math. J.* **14**, No. 3, 341–382 (1964).
3. Samoilenko, A. M. and Tkach, B. P. *Numerical-Analytical Methods in Theory of Periodic Solutions to Equations with Partial Derivatives* (Naukova Dumka, Kiev, 1992) [in Russian].
4. Ptashnik, B. I. *Ill-posed Boundary Problems for Differential Equations with Partial Derivatives* (Naukova Dumka, Kiev, 1984) [in Russian].
5. Kolesov, A. Yu., Mishchenko, E. F., and Rozov, N. Kh. *Asymptotic Methods of Investigation of Periodic Solutions to Nonlinear Hyperbolic Equations* (Nauka, Moscow, 1998) [in Russian].
6. Kiguradze, T. I. "Periodic Boundary Value Problems for Linear Hyperbolic Equations. I", *Differential Equations* **29**, No. 2, 231–245 (1993).
7. Zhestkov, S. V. "Doubly Periodic Solutions of Nonlinear Hyperbolic Partial Differential Systems", *Ukrain. Mat. Zh.* **39**, No. 4, 521–523 (1987) [in Russian].
8. Mitropol'skii, Yu. A., Khoma, G. P., and Gromyak, M. I. *Asymptotic Methods of Investigation of Quasi-Wave Hyperbolic Type Equations* (Naukova Dumka, Kiev, 1991) [in Russian].
9. Asanova, A. T. and Dzhumabaev, D. S. "Correct Solvability of Nonlocal Boundary Value Problems for Systems of Hyperbolic Equations", *Differ. Equ.* **41**, No. 3, 352–363 (2005).
10. Orumbaeva, N. T. "On an Algorithm for Finding the Solution of a Periodic Boundary-Value Problem for a System of Quasilinear Hyperbolic Equations", (Russian) *Sib. Elektromat. Izv.* **27**, 464–474 (2013) [in Russian].
11. Dzhumabaev, D. S. "Conditions for the Unique Solvability of a Linear Boundary Value Problem for an Ordinary Differential Equation", *U.S.S.R. Comput. Math. and Math. Phys.* **29**, No. 1, 34–46 (1989).
12. Orumbayeva, N. T. and Sabitbekova, G. "About the Solvability of a Family of Periodic Boundary Value Problems for Ordinary Differential Equations", *Vestnik Karagandinskogo Gos. Univ., Ser. Matem.*, No. 4(72), 89–96 (2013) [in Russian].
13. Trenogin, V. A. *Functional Analysis* (Nauka, Moscow, 1980) [in Russian].

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